

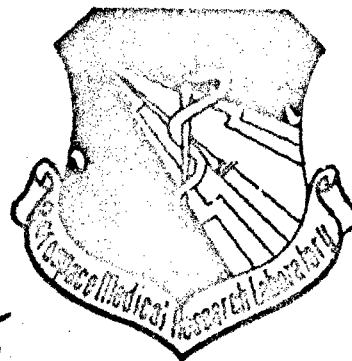
FOR FURTHER TRAN ~~SMITH~~

A053702

2

AD A055079

AMRL-TR-73-110 (5)
Volume 5



20000726125

**COMMUNITY NOISE EXPOSURE
RESULTING FROM AIRCRAFT OPERATIONS:**

**Volume 5.
Acoustic Data on Air Force Propeller Aircraft**

THIS DOCUMENT IS BEST QUALITY PRACTICABLE.
THE COPY FURNISHED TO YOU CONTAINED A
SIGNIFICANT NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.

J. D. SPEAKMAN
R. G. POWELL
R. A. LEE

DDC
RECEIVED
JUN 14 1978
B

FEBRUARY 1978

Approved for public release; distribution unlimited.

**Reproduced From
Best Available Copy**

AEROSPACE MEDICAL RESEARCH LABORATORY
AEROSPACE MEDICAL DIVISION
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

DDC FILE COPY

NOTICES

When US Government drawings, specifications, or other data are used for any purpose other than a definitely related Government procurement operation, the Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise, as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Please do not request copies of this report from Aerospace Medical Research Laboratory. Additional copies may be purchased from:

National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161

Federal Government agencies and their contractors registered with Defense Documentation Center should direct requests for copies of this report to:

Defense Documentation Center
Cameron Station
Alexandria, Virginia 22314

TECHNICAL REVIEW AND APPROVAL

AMRL-TR-73-110
Volume 5

This report has been reviewed by the Information Office (OI) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



HENNING E. VON GIERKE

Director

Biodynamics and Bioengineering Division
Aerospace Medical Research Laboratory

DISCLAIMER NOTICE

**THIS DOCUMENT IS BEST QUALITY
PRACTICABLE. THE COPY FURNISHED
TO DDC CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.**

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER AMRL-TR-73-110 (Vol 5)		2. REPORT NUMBER AMRL-TR-73-110-VOL-5
3. TITLE (and Subtitle) COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS: Volume 5. Acoustic Data on Air Force Propeller Aircraft,		4. TYPE OF REPORT & SERIES COVERED Volume 5 of a Series
5. AUTHOR(s) Jerry D. Speakman, Robert G. Powell Robert A. Lee		6. PERFORMING ORG. REPORT NUMBER
7. PERFORMING ORGANIZATION NAME AND ADDRESS Aerospace Medical Research Laboratory Aerospace Medical Division, Air Force Systems Command, Wright-Patterson AFB OH		8. CONTRACT OR GRANT NUMBER(s) 17 04
9. CONTROLLING OFFICE NAME AND ADDRESS 45433 Same as above		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 62202F 7231 04 33 & 7231 04 25
11. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) 12 703 P.		12. REPORT DATE February 1978
13. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		13. SECURITY CLASS. (of this report) Unclassified
14. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		14a. DECLASSIFICATION/DOWNGRADING SCHEDULE
15. SUPPLEMENTARY NOTES		
16. KEY WORDS (Continue on reverse side if necessary and identify by block number) Aircraft Noise Community Noise Exposure Noise Environments		
17. ABSTRACT (Continue on reverse side if necessary and identify by block number) This series of reports present the results of field test measurements to define the noise produced on the ground by military, fixed wing aircraft during controlled level flyovers and ground runups. For flight conditions, data are presented as a function of angle and distance to the aircraft. All of the data are normalized to standard acoustic reference conditions of 59°F temperature and 70% relative humidity. Volume 1 discusses the		

DD FORM 1473 1 JAN 73 EDITION OF 1 NOV 65 IS OBSOLETE

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

009 850

scope, limitations, and definitions needed to understand and use the volumes containing the noise data. It provides guidance for making airspeed and engine power setting adjustments to the flight noise data for other than reference conditions as well as work sheets and several examples for computing cumulative noise exposure resulting from multiple flight or ground runup operations. Noise data are presented in this Volume 5 for the following Air Force propeller type aircraft: C-7A; C-97L; C-118A; C-119L, C-121C,G,S, T; C-123K; C-130A,D; C-130B,E; C-130H,N,P; C-131A,B,D,E; OV-10, T-29; and U-4B.

The other noise data volumes are categorized according to:

- Vol. 2: Air Force Bomber/Cargo Aircraft
- Vol. 3: Air Force Attack/Fighter Aircraft
- Vol. 4: Air Force Trainer/Fighter Aircraft
- Vol. 6: Navy Aircraft

PREFACE

The authors gratefully acknowledge the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Bolt Beranek and Newman Inc. and Mr. John N. Cole of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. David Eilerman both of the University of Dayton Research Institute, the instrumentation development and noise measurement efforts of Harald K. Hille of the Biodynamic Environment Branch; and the noise measurement efforts of Capt. N. A. Farinacci of the Biodynamic Environment Branch and Mr. L. Keith Kettler of the University of Dayton Research Institute.

This report is one of a series describing the contractual and in-house research program undertaken by the Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723104, "Measurement and Prediction of Noise Environments of Air Force Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.

ACCESSION for		
NTIS	Public Section	<input checked="" type="checkbox"/>
DDC	Ref Section	<input type="checkbox"/>
UNANNOUNCED		<input type="checkbox"/>
JUSTIFICATION		
BY		
DISTRIBUTION/AVAILABILITY CODES		
Dist.	AVAIL	and/or SPECIAL
A		

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	3
C-7A FLIGHT DATA	4-31
RUNUP DATA	32-55
KC-97L FLIGHT DATA	57-93
RUNUP DATA	94-124
C-118A FLIGHT DATA	125-152
RUNUP DATA	153-177
C-119L FLIGHT DATA	178-205
RUNUP DATA	206-236
C-121C,G,S,T FLIGHT DATA	237-273
RUNUP DATA	274-304
C-123K FLIGHT DATA	305-341
RUNUP DATA	342-372
C-130A,D FLIGHT DATA	373-391
RUNUP DATA	392-416
C-130B,E FLIGHT DATA	417-435
RUNUP DATA	436-460
C-130H,N,P FLIGHT DATA	461-479
RUNUP DATA	480-504
C-131A,B,D,E FLIGHT DATA	505-532
RUNUP DATA	533-557
OV-10 FLIGHT DATA	558-585
RUNUP DATA	586-604
T-29 FLIGHT DATA	605-632
RUNUP DATA	633-657
U-4B FLIGHT DATA	658-685
RUNUP DATA	686-698

INTRODUCTION

This report is one of a series published under the same report number (AMRL-TR-73-110) as a multi-volume databook quantifying the single event far-field noise produced on the ground by flyover and ground runup operations of military aircraft. A companion report (AMRL-TR-73-107, "Community Noise Exposure Resulting From Aircraft Operations: Acquisition and Analysis of Acoustic Data") describes the test protocol and data reduction algorithms associated with these data.

Volume 1 discusses the scope, definitions, and limitations of the noise data volumes as well as providing work sheets and several examples for making hand computations of noise exposure from multiple flight and/or ground runup operations.

Volume 5 provides the noise characteristics of Air Force propeller type aircraft.

For identification purposes a code number has been assigned that is unique for each aircraft type. The noise data for aircraft codes less than 500 are based on measured flyovers and ground runups. The noise data for aircraft codes greater than 500 are estimated from measured data on aircraft having similar engines with adjustments made to account for different numbers of engines or different thrust.

The OMEGA 6.6 output pages describe the flyover noise characteristics while the OMEGA 8.2 output pages show the expected noise levels for *single* engine operation during ground runup.

For ease of comparing flight noise levels of different aircraft, the graphs of noise versus distance shown in the OMEGA 6 printouts are sized to fit the standard 3-cycle by 10 divisions per inch semi-logarithmic paper.

The other noise data volumes are categorized according to:

- Vol. 2: Air Force Bomber/Cargo Aircraft Noise Data
- Vol. 3: Air Force Attack/Fighter Aircraft Noise Data
- Vol. 4: Air Force Trainer/Fighter Aircraft Noise Data
- Vol. 6: Navy Aircraft Noise Data

Direct any questions concerning the data in this report to:
AMRL/BBE, Wright-Patterson AFB OH 45433; Autovon 78-53664 or 78-53605;
Commercial (513) 255-3664 or (513) 255-3605.

USAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAF
C-7 USAF C-7 USAF C-7 USAF C-7 USAF C-7 USAF C-7 USAF C-7 USAF
AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT
C-7 C-7 C-7 C-7 C-7 C-7 C-7 C-7

[illegible][illegible][illegible]

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 072
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

<u>POWER SETTING</u>	<u>PAGE</u>
TAKEOFF 50 IN HG, 2700 RPM	5-13
APPROACH 27 IN HG, 2250 RPM	14-22
INTERMEDIATE 35 IN HG, 2550 RPM	23-31

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

USAF	NORMALIZED MEAN SPL SPECTRUM AT PNL	USAF
USAF	NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT	USAF
USAF	AIR-TO-GROUND PROPAGATION	USAF
USAF	SOUND PRESSURE LEVEL SPECTRA	USAF
USAF	SINGLE EVENT MEASURES (AL, ALT, PNL, PNL, SEL, SELT, EPNL)	USAF
USAF	SOUND PRESSURE LEVEL SPECTRA	USAF
USAF	SINGLE EVENT MEASURES (AL, ALT, PNL, PNL, SEL, SELT, EPNL)	USAF
USAF	GROUND-TO-GROUND PROPAGATION	USAF
USAF	SOUND PRESSURE LEVEL SPECTRA	USAF
USAF	SINGLE EVENT MEASURES (AL, ALT, PNL, PNL, SEL, SELT, EPNL)	USAF

USAF	20 JAN 76	USAF
USAF		USAF

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									
AIR-TO-GROUND PROPAGATION																									
AIRCRAFT:																									
C-7																									
OPERATIONS:																									
TAKEOFF POWER																									
50 IN HG 2700 RPM																									
METEOROLOGY:																									
TEMP = 59 F																									
REL HUMID = 73 %																									
AIRSPEED = 160 KNOTS																									
DELTA N = 0.0 DB																									
PAGE M1																									
OMEGA 6.6																									
A/C CODE: 072																									
OPS CODE: 103																									
PROFILE VER: A																									
26 JAN 76																									
IDENTIFICATION:																									
SLANT DISTANCE (FEET)																									
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	79	84	83	90	103	99	94	99	97	98	95	95	94	93	91	91	90	88	87	86	81	80	78	78	
250	77	82	81	88	101	97	92	97	95	96	93	93	92	91	89	89	88	85	84	83	79	77	75	75	
315	75	80	79	86	99	95	90	95	93	94	91	91	90	89	87	86	85	83	82	81	76	74	72	71	
400	73	78	77	84	96	93	88	93	91	92	89	89	88	87	85	84	83	81	80	78	74	71	68	67	
500	71	76	75	82	94	91	86	91	89	90	87	87	86	85	83	82	81	78	77	75	71	68	64	62	
630	69	74	73	80	92	89	84	89	87	88	85	85	84	83	81	80	78	76	74	72	67	64	60	57	
800	67	72	71	78	90	87	82	87	85	86	83	83	82	81	78	77	76	73	71	69	64	60	55	58	
1000	65	70	69	76	88	85	83	85	83	84	81	81	79	79	76	75	73	70	68	65	60	55	49	43	
1250	63	68	67	74	86	83	73	83	81	82	78	78	77	76	74	72	71	67	65	62	56	50	42	34	
1600	61	66	65	72	84	81	75	80	79	80	76	76	75	73	71	69	68	64	61	57	51	44	34	23	
2000	59	64	63	70	82	79	73	78	76	77	74	74	72	71	68	66	64	60	57	52	45	37	24	18	
3150	57	62	61	68	80	77	71	76	74	75	72	71	70	68	65	63	61	56	52	46	39	28	13	13	
4000	55	60	59	66	78	75	69	74	72	73	69	69	67	65	62	59	57	52	47	39	31	21	18	5	
5800	53	58	56	64	76	72	67	72	70	70	66	66	64	62	58	56	52	46	40	33	21	18	5	5	
8000	51	56	54	62	74	70	64	69	67	68	64	63	61	58	55	51	47	40	33	21	18	5	5	5	
10000	49	53	52	59	71	68	62	67	65	65	61	60	57	54	50	46	41	33	23	9	9	9	9	9	
12500	47	51	50	57	69	65	60	64	62	62	58	58	56	53	50	45	40	34	24	13	13	13	13	13	
16000	45	49	48	55	67	63	57	61	59	59	54	54	52	49	45	39	33	26	14	14	14	14	14	14	
20000	42	47	45	52	64	60	54	58	56	55	50	48	44	39	33	25	16	4	4	4	4	4	4	4	
25000	40	45	43	50	62	58	51	55	52	51	46	43	38	32	24	15	4	4	4	4	4	4	4	4	
30000	38	42	41	47	59	55	48	52	48	47	41	37	31	24	15	3	3	3	3	3	3	3	3	3	
35000	36	40	38	45	56	51	45	48	44	42	35	31	23	15	3	3	3	3	3	3	3	3	3	3	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

200	C-7	TAKEOFF POWER	A+	P
250	50 IN HG	2700 RPM	.	* P
315	AIR SPEED = 160 KNOTS		.	.
400	TEMP = 59 F	REL HUMID = 70 %	.	* P
500	DELTA N = 0.0 DB		.	.
630	NO. OF RECORDS: 8		.	* P
800	IDENT: 6.6-672-103-260176-A		.	.
1000			.	.
1250			.	.
1600			.	.
2000			.	.
2500			.	.
3000			.	.
3500			.	.
4000			.	.
4500			.	.
5000			.	.
5500			.	.
6000			.	.
6500			.	.
7000			.	.
7500			.	.
8000			.	.
8500			.	.
9000			.	.
9500			.	.
10000			.	.
10500			.	.
11000			.	.
11500			.	.
12000			.	.
12500			.	.
13000			.	.
13500			.	.
14000			.	.
14500			.	.
15000			.	.
15500			.	.
16000			.	.
16500			.	.
17000			.	.
17500			.	.
18000			.	.
18500			.	.
19000			.	.
19500			.	.
20000			.	.
20500			.	.
21000			.	.
21500			.	.
22000			.	.
22500			.	.
23000			.	.
23500			.	.
24000			.	.
24500			.	.
25000			.	.

260	(	C-7	TAKEOFF POWER	ST-E
250	(	50 IN HG	2700 RPM	ST E
315	(	AIRSPEED = 160 KNOTS		
400	(	TEMP = 59 F	REL HUMID = 70 %	ST E
500	(	DELTA N = 0.0 DB		ST E
	(	NO. OF RECORDS: 8		
	(	IDENT: 6.6-072-103-260176-A		
	(
S 630	(			ST E
L 800	(			ST E
N 1000	(			ST E
D 1250	(			ST E
I 1500	(			ST E
T 2000	(			ST E
A 2500	(			ST E
N 3150	(			ST E
O 4000	(			ST E
E 5000	(			ST E
E 6000	(			ST E
E 7000	(			ST E
E 8000	(			ST E
E 9000	(			ST E
E 10000	(			ST E
E 12500	(			ST E
E 15000	(			ST E
E 20000	(			ST E
E 25000	(			ST E

NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
GROUND-TO-GROUND PROPAGATION																								
AIRCRAFT:	OPERATIONS:										METEOROLOGY:			IDENTIFICATION:										
	TAKEOFF POWER										TEMP			OMEGA 6.6										
C-7	50 IN HG 2700 RPM										REL HUMID = 70 %			A/C CODE: 072										
	AIRSPEED = 160 KNOTS										DELTA N = 0.0 DB			OPS CODE: 103										
														PROFILE VER: A										
														26 JAN 76										
														PAGE L1										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	74	79	76	85	98	94	89	94	92	93	90	90	89	88	86	86	85	83	82	81	76	75	73	73
250	72	77	76	83	96	92	87	92	90	91	88	88	87	86	84	83	83	80	79	78	74	72	70	70
315	70	75	74	81	94	90	85	90	88	89	86	86	85	84	82	81	80	78	77	76	71	69	67	66
400	68	73	72	79	91	88	83	88	86	87	84	84	83	82	80	79	78	76	75	73	69	66	63	62
500	66	71	70	77	89	86	80	86	84	85	82	82	81	80	78	77	76	73	72	70	66	63	59	57
630	64	69	68	75	87	83	78	83	82	83	80	80	79	78	76	75	73	71	69	67	62	59	55	52
800	62	67	66	73	84	80	75	80	80	81	78	78	77	76	73	72	71	69	66	64	59	55	50	45
1000	60	65	64	70	81	77	72	77	78	79	76	76	74	73	71	70	68	65	63	60	55	50	44	38
1250	58	63	61	67	78	74	69	74	75	77	77	73	72	71	69	67	66	62	60	57	51	45	37	29
1600	56	60	57	63	75	71	65	71	72	75	71	71	70	68	66	64	63	59	56	52	46	39	29	18
2000	53	56	54	59	71	67	61	67	68	72	69	69	67	66	63	61	59	55	52	47	40	32	19	5
2500	50	52	50	55	66	63	57	62	64	69	66	66	65	63	60	58	56	51	47	41	34	23	8	
3150	46	48	45	50	62	58	52	57	60	64	63	64	62	60	57	54	52	47	42	34	26	13		
4000	41	43	40	45	56	52	46	52	54	60	59	60	59	57	53	51	47	41	35	26	16	0		
5000	36	38	35	40	51	47	41	47	48	54	55	56	55	53	50	46	42	35	28	16	5			
6308	31	33	30	35	46	42	37	42	43	49	51	52	51	49	45	41	36	28	16	4				
8003	29	31	28	33	44	40	34	39	40	46	48	48	47	45	40	35	29	19	8					
10000	27	29	26	31	42	37	32	36	37	43	44	44	43	40	34	28	21	9						
12500	24	27	23	28	39	35	29	33	34	39	40	40	38	34	28	20	11							
16000	22	25	21	26	37	32	26	30	30	35	36	35	32	27	19	10								
20000	20	22	19	23	34	29	23	27	26	31	31	29	25	19	10									
25000	18	20	16	21	31	26	19	23	22	26	25	23	17	10										
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8																								
< BAND WHICH DETERMINES THE TONE CORRECTION (C).																								

[illegible]

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:	
(FEET)	(OBA)	(OBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)		
200	90.8	92.0	104.9	106.0	96.4	97.8	101.2		
250	88.7	89.9	102.7	103.9	95.3	96.7	100.1		
315	86.5	87.8	100.6	101.7	94.2	95.6	98.9		
400	84.5	85.7	98.4	99.5	93.1	94.5	97.7		
500	82.4	83.5	96.1	97.3	92.0	93.4	96.5		
630	80.2	81.3	93.9	95.0	90.3	92.2	95.2		
800	78.0	79.1	91.5	92.7	89.6	91.0	93.9		
1000	75.7	76.9	89.1	90.3	88.4	89.7	92.5		
1250	73.4	74.6	86.7	87.9	87.1	88.4	91.0		
1600	71.1	72.3	84.2	85.4	85.7	87.1	89.5		
2000	68.7	69.9	81.6	82.8	84.3	85.7	87.9		
2500	66.3	67.4	78.9	80.0	82.9	84.3	86.2		
3150	63.7	64.9	76.1	77.2	81.4	82.7	84.4		
4000	61.2	62.1	73.2	74.1	79.8	80.9	82.2		
5000	58.5	59.2	70.2	70.9	78.1	78.9	79.9		
6300	55.8	56.2	67.1	67.5	76.4	76.9	77.6		
8000	52.9	53.2	63.8	64.0	74.5	74.8	75.0		
10000	50.0	50.0	60.4	60.4	72.6	72.6	72.4		
12500	46.9	46.9	56.7	56.7	70.6	70.6	69.7		
16000	43.7	43.7	52.8	52.8	68.4	68.4	66.8		
20000	40.4	40.4	48.5	48.5	66.0	66.0	63.5		
25000	36.8	36.8	43.8	43.8	63.4	63.4	59.8		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	C-7 APPROACH POWER										A	P
250	27 IN HG	2250 RPM									A	P
315	AIR SPEED = 96 KNOTS										A	P
400	TEMP = 59 F	REL HUMID = 70 %								A	P	
500	DELTA N = 0.0 DB										A	P
630	NO. OF RECORDS: 7										A	P
800	IDENT: 6.6-072-105-260176-A										A	P
1000											A	P
1250											A	P
1600											A	P
2000											A	P
2500											A	P
3150											A	P
4000											A	P
5000											A	P
6300											A	P
8000											A	P
10000											A	P
12500											A	P
16000											A	P
20000											A	P
25000											A	P
AIR TO GROUND												
P = PNLT												
+ = PNL												
+ = ALT												
A = AL												
NOISE LEVEL IN DB												
30	40	50	60	70	80	90	100	110				

200	(	C-7	27 IN HG	APPROACH POWER	S-T-E)
250	(	AIRSPEED = 90 KNOTS	2250 RPM	.	ST E
315	(	TEMP = 59 F	REL HUMID = 70 %	.	ST E.
400	(	DELTA N = 0.0 DB		.	ST E.
500	(	NO. OF RECORDS: 7		.	ST E.
	(	IDENT: 6.6-072-105-260176-A		.	ST. E.
S 630	(	.	.	.	ST E.
L A 800	(	.	.	.	ST E.
N T 1000	(	.	.	.	ST E.
D 1250	(	.	.	.	ST E.
I S 1600	(	.	.	.	ST E.
A 2000	(	.	.	.	ST E.
N C 2500	(	.	.	.	ST E.
E 3150	(	.	.	.	ST E.
I N 4000	(	.	.	.	ST E.
F 5000	(	.	.	.	ST E.
E 6300	(	.	.	.	ST E.
8000	(	.	.	.	ST E.
10000	(	.	.	.	ST E.
12500	(	.	.	.	ST E.
16000	(	.	.	.	ST E.
20000	(	.	.	.	ST E.
25000	(	.	.	.	ST E.

EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
BAND WHICH DETERMINES THE TONE CORRECTION (G).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	27 IN HG	2250 RPM	METEOROLOGY:	TEMP	REL HUMID	59 F	IDENTIFICATION:
G-7									OMEGA 6.6
									A/C CODE: 072
									OPS CODE: 105
									PROFILE VER: A
									26 JAN 76
									PAGE M2
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPML** (EPNDB)		
200	85.8	86.9	99.8	100.9	91.4	92.7	96.1		
250	83.7	84.8	97.6	98.8	90.3	91.7	94.9		
315	81.6	82.7	95.5	96.6	89.2	90.6	93.8		
400	79.5	80.6	93.2	94.3	88.1	89.4	92.5		
500	77.3	78.4	90.7	91.8	86.9	88.2	91.0		
630	75.0	76.1	88.1	89.2	85.6	86.9	89.4		
800	72.6	73.7	85.4	86.5	84.2	85.6	87.7		
1000	70.2	71.3	82.4	83.6	82.8	84.1	85.7		
1250	67.5	68.7	79.2	80.3	81.2	82.5	83.5		
1600	64.8	65.9	75.7	76.9	79.4	80.8	81.0		
2000	62.0	63.1	72.4	73.5	77.6	78.9	78.7		
2500	58.8	59.9	68.5	69.6	75.4	76.7	75.7		
3150	55.3	56.5	64.3	65.4	73.0	74.3	72.6		
4000	51.5	52.4	59.5	60.4	70.1	71.2	68.6		
5000	47.3	48.0	54.4	55.1	66.9	67.7	64.2		
6300	42.8	43.2	48.6	49.0	63.4	63.9	59.1		
8000	38.5	39.1	43.8	44.0	60.5	60.7	55.0		
10000	34.6	34.6	38.4	38.4	57.3	57.3	50.3		
12500	30.1	30.1	31.6	31.6	53.8	53.8	44.5		
16000	25.3	25.3	24.1	24.1	49.9	49.9	38.0		
20000	20.3	20.3	9.5	9.5	45.9	45.9	24.5		
25000	15.1	15.1			41.7	41.7	10.9		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION											
AIRCRAFT:											
C-7											
OPERATIONS:											
INTERMEDIATE POWER											
35 IN HG 2550 RPM											
METEOROLOGY:											
TEMP = 59 F											
REL HUMID = 70 %											
AIRSPEED = 140 KNOTS											
DELTA N = 0.0 DB											
PAGE 13											
OMEGA 6.6											
A/C CODE: 072											
OPS CODE: 106											
PROFILE VER: A											
26 JAN 76											
PAGE 13											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)				
200	94.5	95.3	107.7	108.5	98.5	99.7	102.3				
250	92.4	93.3	105.6	106.4	97.4	98.6	101.2				
315	90.3	91.1	103.4	104.2	96.3	97.5	100.0				
400	88.2	89.0	101.2	102.0	95.2	96.3	98.8				
500	86.0	86.8	98.9	99.7	94.0	95.2	97.5				
630	83.8	84.7	96.6	97.4	92.8	94.0	96.2				
800	81.6	82.4	94.2	95.0	91.6	92.8	94.8				
1000	79.3	80.1	91.8	92.6	90.3	91.5	93.4				
1250	77.0	77.8	89.3	90.1	89.0	90.2	91.9				
1600	74.6	75.5	86.7	87.6	87.6	88.8	90.3				
2000	72.2	73.0	84.0	84.9	86.2	87.4	88.6				
2500	69.7	70.5	81.3	82.1	84.7	85.9	86.9				
3150	67.1	67.9	78.4	79.2	83.1	84.3	85.0				
4000	64.5	65.1	75.4	76.1	81.4	82.4	82.8				
5000	61.7	62.2	72.4	72.9	79.7	80.4	80.5				
6300	58.9	59.2	69.2	69.5	77.8	78.3	78.1				
8000	55.9	56.0	65.8	66.0	75.9	76.1	75.5				
10000	52.8	52.8	62.2	62.2	73.8	73.8	72.7				
12500	49.5	49.5	58.4	58.4	71.5	71.5	69.8				
16000	46.1	46.1	54.3	54.3	69.1	69.1	66.7				
20000	42.4	42.4	49.9	49.9	66.4	66.4	63.3				
25000	38.6	38.6	45.0	45.0	63.6	63.6	59.4				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
GROUND-TO-GROUND PROPAGATION																								
AIRCRAFT:																								
C-7																								
(OPERATIONS:) METEOROLOGY:)																								
(INTERMEDIATE POWER) TEMP)																								
(35 IN HG 2550 RPM) REL HUMID = 70 %)																								
(AIRSPEED = 140 KNOTS) DELTA N = 0.0 DB)																								
IDENTIFICATION:)																								
OMEGA 6.6																								
A/C CODE: 072																								
OPS CODE: 106																								
PROFILE VER: A																								
26 JAN 76																								
PAGE L3																								
SLANT DISTANCE (FEET)																								
FREQUENCY BAND NUMBER																								
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	81	75	70	81	87	89	83	88	84	84	82	81	79	79	77	76	75	73	71	71	67	65	65	66
250	79	72	68	79	85	87	81	96	82	82	80	79	77	77	75	75	74	73	71	59	65	63	62	63
315	77	70	66	77	83	85	79	84	80	80	78	77	75	75	73	73	72	70	68	66	62	60	58	59
400	75	68	64	75	81	83	77	82	78	78	76	75	73	73	71	71	70	68	66	64	60	57	55	54
500	73	66	62	73	79	81	74	80	76	76	74	73	71	71	69	68	67	66	63	61	57	53	51	49
630	71	64	60	71	77	78	72	77	73	73	72	71	69	68	67	66	65	63	61	58	53	50	46	44
800	69	62	58	69	74	75	59	75	71	71	70	69	67	66	64	64	63	60	58	55	50	45	41	37
1000	67	60	56	66	71	73	66	72	69	69	68	67	64	64	62	61	60	57	55	51	46	41	35	29
1250	55	58	53	63	68	69	63	69	66	67	65	64	62	61	59	58	57	54	51	47	41	35	28	20
1600	63	55	49	59	64	66	59	65	63	65	63	62	60	59	57	56	54	51	47	42	36	29	20	9
2000	60	52	46	56	60	62	56	61	59	63	61	60	57	56	54	53	51	47	43	37	30	21	10	
2500	56	48	41	51	56	58	51	57	55	59	58	57	54	54	51	49	47	43	38	31	24	12		
3150	52	43	37	46	51	53	46	52	51	55	55	54	52	51	48	46	43	38	32	24	15	2		
4000	48	38	31	41	46	47	41	46	46	50	51	51	49	47	44	42	38	33	26	15	6			
5000	43	34	27	36	41	42	36	41	40	44	47	47	45	44	40	37	33	27	18	5				
6300	38	29	22	31	36	37	31	36	34	39	42	42	41	40	36	32	27	19	8					
8000	36	27	20	29	34	35	28	33	31	36	39	39	37	35	30	26	20	10						
10000	34	25	18	27	31	33	26	31	28	33	36	35	32	30	24	18	11							
12500	31	22	15	24	29	30	23	28	25	29	32	30	27	24	17	10	1							
16000	29	20	13	22	26	27	20	24	21	25	27	25	21	17	9									
20000	27	18	11	19	24	24	17	21	17	21	22	19	14	9										
25000	24	15	8	17	21	21	13	17	13	16	16	12	6											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

200	(	---	ST-E
250	(	C-7	INTERMEDIATE POWER
315	(	35 IN HG	2550 RPM
400	(	AIR SPEED = 140 KNOTS	
500	(	TEMP = 59 F	REL HUMID = 70 %
630	(	DELTA N = 0.0 DB	
800	(	NO. OF RECORDS: 8	
1000	(	IDENT: 6.6-072-106-260176-A	
1250	(
1600	(
2000	(
2500	(
3150	(
4000	(
5000	(
6300	(
8000	(
10000	(
12500	(
16000	(
20000	(
25000	(

[illegible]

MOISE PRODUCED ON THE GROUND BY

AIRCRAFT

QUICKING GROUND RUN-JP OPERATIONS

TEST 74-u72-001
AIRCRAFT CODE: 072
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 0.2

COMPUTER PROGRAM CIRC-000		PAGE
<u>POWER SETTING</u>		
ISLE 600 RPM, 19 IN MAP	33-38	
TAXI 1000 RPM, 20 IN MAP	39-40	
POWER RUNUP 2450 RPM, 35 IN MAP	45-50	
POWER OFF 2575 RPM 50 IN MAP	51-55	

FOR EACH POWER SETTING. THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

18 MAY 76

MILITARY AND NAVAL PERSONNEL

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT: C-7A AIRCRAFT ENG. R-2000-7M2 GROUND RUNUP																
OPERATIONS: (IDLE POWER, C-7A) (SINGLE ENGINE, 600 RPM) (GROUND RUNUP)																
METEOROLOGY: (TEMP = 59 F) (BAR PRESS = 29.92 IN HG) (REL HUMID = 70 %) (DELTA N = -3.0 DB)																
IDENTIFICATION: (OMEGA 8.2) (TEST 74-072-001) (RUN 01) (AIRCRAFT CODE 072) (OPERATION CODE 00213) (PROFILE VERSION A) (18 MAY 76) (PAGE C1)																
BAND CENTER FREQ (HZ)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
50	67	66	67	67	67	67	70	72	74	74	71	67	65	60	62	64
63	63	64	63	62	62	64	67	68	70	70	64	63	65	65	65	67
80	63	62	61	60	60	62	62	61	61	63	62	60	59	60	60	62
100	62	61	61	61	63	66	68	68	67	63	63	63	62	63	61	59
125	62	64	60	61	61	61	62	61	64	61	57	60	61	63	63	57
160	60	59	61	60	60	60	58	60	61	57	56	56	57	61	57	56
200	58	58	57	54	51	53	53	53	52	54	50	50	51	52	53	54
250	57	56	54	52	49	48	45	43	43	42	42	40	46	48	49	50
315	57	54	53	49	48	45	43	43	44	41	40	40	46	47	52	54
400	57	53	50	48	47	46	44	44	43	43	43	40	43	44	47	50
500	54	52	50	48	47	46	44	44	43	43	41	38	41	42	44	47
630	50	48	47	47	47	46	44	42	42	44	42	38	41	41	44	45
800	47	47	47	46	46	45	44	42	42	44	42	39	42	42	44	44
1000	46	46	46	45	45	44	43	42	41	41	41	39	42	44	44	44
1250	48	47	46	46	47	47	46	45	44	44	42	39	42	44	44	44
1600	49	47	47	47	46	46	45	45	44	44	42	39	43	44	44	44
2000	49	47	47	47	46	46	45	45	44	44	42	39	43	44	44	44
2500	48	47	47	47	46	46	45	44	44	44	42	39	43	44	44	44
3150	46	46	47	46	46	45	44	43	43	40	38	37	40	44	46	47
4000	45	44	44	43	42	42	41	41	38	37	36	36	40	46	50	48
5000	42	42	41	40	37	37	37	37	36	36	34	34	41	49	51	49
6300	41	41	41	39	35	36	35	35	33	33	34	41	47	48	45	47
8000	39	39	39	40	40	38	37	38	37	32	34	41	49	50	46	46
10000	39	38	38	38	36	35	35	35	32	31	36	42	47	50	47	46
OVERALL	72	73	71	71	71	72	74	75	76	76	73	71	70	71	70	69

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE 1 PERCEIVED NOISE LEVEL (PNL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-7A AIRCRAFT																			
ENG. R-200L-742																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-072-001																			
RUN 01																			
AIRCRAFT CODE 072																			
OPERATION CODE 00213																			
PROFILE VERSION A																			
18 MAY 76																			
PAGE 01																			
METEOROLOGICAL DATA:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.0	78.4	76.2	75.7	73.5	74.0	74.9	75.0	73.6	72.5	70.2	71.3	70.1	70.0	77.7	76.9	76.6	75.1	72.4
250	74.7	76.1	73.9	73.4	71.2	71.6	72.2	72.5	71.2	69.9	67.8	68.9	71.7	75.5	75.3	74.5	74.2	69.7	70.1
315	72.4	73.8	71.5	71.0	68.8	69.2	70.1	70.1	68.7	67.3	65.3	66.3	68.5	71.1	71.1	72.8	72.0	67.4	67.8
400	70.0	71.3	69.1	68.5	66.3	66.8	67.8	67.6	66.2	64.7	62.7	63.7	65.5	70.4	70.2	69.4	69.1	64.9	65.4
500	67.5	68.7	66.5	65.9	63.7	64.2	65.1	65.0	63.5	61.3	60.0	60.9	62.6	67.6	67.4	66.6	66.4	62.4	62.8
630	64.7	65.9	63.7	63.2	60.9	61.4	62.3	62.3	60.7	59.0	57.0	57.9	62.6	64.5	64.4	63.7	63.5	59.6	60.1
800	62.4	62.9	60.8	60.3	57.9	58.3	59.1	59.1	57.6	55.8	53.6	54.5	59.3	61.3	61.3	60.5	60.4	56.6	57.2
1000	59.1	59.6	57.7	57.1	54.4	54.7	55.6	55.6	53.9	52.1	49.6	50.4	55.6	57.6	57.9	57.1	57.4	53.4	54.2
1250	55.9	56.7	54.5	53.4	50.6	50.8	51.6	51.5	49.7	48.2	45.2	45.9	51.3	53.5	54.1	53.4	54.0	50.0	50.9
1600	52.5	53.1	50.8	49.5	46.8	46.7	46.9	46.8	44.7	43.7	40.6	40.9	45.4	46.7	49.8	49.3	50.4	46.0	47.3
2000	48.6	49.2	46.8	45.3	42.2	41.7	41.6	41.2	38.6	38.0	33.3	33.8	40.8	42.9	44.7	45.3	46.1	41.4	43.0
2500	43.4	44.3	41.6	40.2	37.1	35.9	35.5	34.1	31.3	29.8	25.0	23.4	34.2	36.9	38.6	39.6	40.9	35.5	37.5
3150	37.3	38.3	35.2	33.2	29.6	28.5	27.8	26.0	24.0	22.4	18.9	10.9	23.7	27.1	31.9	33.1	34.3	27.2	29.6
4000	30.6	30.8	26.2	24.7	20.3	19.0	18.6	14.6	2.4	8.0									
5000	17.7	18.2	14.7	9.4	11.1	11.3	8.2	3.1											
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNL)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
IDENTIFICATIONS:																				
) OMEGA 8.2																				
) TEST 74-072-031																				
) RUN 91																				
) AIRCRAFT CODE 072																				
) OPERATION CODE 00213																				
) PROFILE VERSION 1																				
) 18 MAY 76																				
) PAGE 51																				
) METEOROLOGICAL DATA:																				
) TEMP = 59 F																				
) BAR PRESS = 29.92 IN HG																				
) REL HUMID = 73 %																				
) DELTA N = -3.5 DB																				
) ANGLE (DEGREES)																				
) DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	77.0	73.4	70.2	75.7	74.3	74.7	75.9	70.2	74.5	72.5	74.9	72.0	70.1	75.2	70.8	77.6	76.6	72.1	72.4	
250	74.7	70.1	73.9	73.4	71.9	72.3	73.5	73.8	72.1	69.3	68.4	69.5	73.7	75.8	70.3	75.2	74.2	69.7	73.1	
315	72.4	73.8	71.5	71.0	69.6	69.9	71.1	71.3	69.6	67.3	65.9	65.9	71.1	74.3	73.3	72.7	71.7	67.9	67.8	
400	73.0	71.3	69.1	68.5	67.1	67.4	68.0	63.8	67.1	64.7	63.4	64.3	68.5	71.0	71.3	70.0	69.1	64.9	65.4	
500	67.5	63.7	60.5	62.9	64.4	64.8	60.0	65.2	64.4	61.9	60.5	61.5	65.6	68.8	65.5	67.3	66.4	62.4	62.8	
630	64.7	62.9	63.7	63.2	61.7	62.1	63.3	63.5	61.6	59.0	57.6	58.0	62.6	65.7	65.5	64.3	63.5	59.6	60.1	
800	62.0	62.9	60.8	60.3	58.7	59.0	60.1	60.4	58.5	55.8	54.2	55.2	59.3	62.5	62.4	61.2	60.4	56.6	57.2	
1000	59.1	53.8	57.7	57.1	55.2	55.4	50.0	50.0	54.8	52.1	50.2	51.1	52.6	58.8	58.9	57.8	57.4	53.4	54.2	
1250	55.9	50.7	54.5	53.4	51.4	51.5	52.5	52.7	50.7	48.2	45.8	46.5	51.3	54.7	55.1	54.1	54.0	50.3	50.9	
1500	52.5	53.1	50.8	49.5	47.0	47.4	47.9	48.0	45.7	43.7	40.6	41.5	40.4	43.9	50.9	50.0	50.4	46.0	47.3	
2000	43.6	43.2	46.3	45.3	43.0	42.4	42.6	42.4	33.5	30.0	33.9	34.4	43.8	44.1	45.7	46.0	46.1	41.4	43.0	
2500	43.4	44.3	41.5	40.2	37.9	30.6	30.4	35.3	32.3	29.8	25.6	24.1	34.2	33.1	39.7	40.4	40.9	35.5	37.5	
3150	37.3	38.3	35.2	34.2	33.4	29.1	20.6	27.2	17.8	18.9	11.5	8.7	23.7	28.3	33.1	33.8	34.3	27.2	29.6	
4000	30.6	34.6	26.2	24.7	21.0	20.2	18.8	15.5	3.1	2.0			7.1	11.0	20.2	23.9	24.6	16.5	21.0	
5000	17.7	15.2	14.7	9.4	11.5	11.4	8.8	3.9							0.0	10.8	12.1	5.7	10.8	
6300	0.9	7.5	3.2		2.1	2.6														
8000																				
10000																				
12500																				
15000																				
20000																				
25000																				

TABLE A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECTS																
C-7A AIRCRAFT																
ENGINE, R-2800-742																
GRUNO RUNUP																
OPERATIONS																
IDLE POWER, C-7A																
SINGLE ENGINE, 600 RPM																
GROUND RUNUP																
METEOROLOGY: = 59 F																
TEMP																
BAR PRESS = 29.92 IN HG																
REL HUMID = 75 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-372-631																
RUN 31																
AIRCRAFT CODE 972																
OPERATION CODE 08213																
PROFILE VERSION A																
18 MAY 76																
PAGE F1																
DISTANCE																
(FEET)																
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	62.9	64.1	61.8	61.2	59.6	59.5	59.5	59.2	57.9	57.1	55.1	55.1	55.1	55.1	55.1	55.1
250	60.8	62.9	59.1	57.5	57.5	57.5	57.4	57.1	55.4	55.1	53.0	53.0	53.0	53.0	53.0	53.0
300	58.7	59.9	57.5	56.9	55.4	55.3	55.3	55.1	53.7	52.9	51.8	51.8	51.8	51.8	51.8	51.8
350	56.2	57.7	55.3	54.7	53.2	53.2	53.2	52.8	51.6	50.9	49.7	49.2	49.2	49.2	49.2	49.2
400	54.3	55.5	53.4	52.5	51.3	50.9	51.0	51.0	49.4	48.5	46.5	46.5	46.5	46.5	46.5	46.5
450	52.2	53.1	51.7	50.1	48.9	48.5	48.7	48.3	47.1	46.3	44.2	44.3	44.3	44.3	44.3	44.3
500	49.6	51.7	48.3	47.7	46.2	46.2	46.3	45.9	44.7	44.3	42.1	42.1	42.1	42.1	42.1	42.1
550	47.2	48.1	45.8	45.2	43.7	43.7	43.8	43.4	42.1	41.5	39.3	39.3	39.3	39.3	39.3	39.3
600	44.6	45.4	43.1	42.5	41.1	41.0	41.1	40.7	39.4	38.9	36.7	36.7	36.7	36.7	36.7	36.7
650	41.9	42.6	40.4	39.7	38.3	38.2	38.3	37.8	36.5	36.1	33.9	33.9	33.9	33.9	33.9	33.9
700	39.2	39.6	37.3	36.6	35.4	35.3	35.3	34.8	33.5	33.0	30.8	30.8	30.8	30.8	30.8	30.8
750	36.5	36.8	34.5	33.8	32.6	32.5	32.5	32.1	30.8	30.3	28.1	28.1	28.1	28.1	28.1	28.1
800	33.8	34.2	31.9	31.2	30.0	29.9	29.9	29.4	28.1	27.6	25.4	25.4	25.4	25.4	25.4	25.4
850	31.1	31.5	29.2	28.5	27.3	27.2	27.2	26.7	25.4	24.9	22.7	22.7	22.7	22.7	22.7	22.7
900	28.4	28.8	26.5	25.8	24.6	24.5	24.5	24.0	22.7	22.2	20.0	20.0	20.0	20.0	20.0	20.0
950	25.7	26.1	23.8	23.1	21.9	21.8	21.8	21.3	20.0	19.5	17.3	17.3	17.3	17.3	17.3	17.3
1000	23.0	23.4	21.1	20.4	19.2	19.1	19.1	18.6	17.3	16.8	14.6	14.6	14.6	14.6	14.6	14.6
1050	20.3	20.7	18.4	17.7	16.5	16.4	16.4	15.9	14.6	14.1	11.9	11.9	11.9	11.9	11.9	11.9
1100	17.6	18.0	15.7	15.0	13.8	13.7	13.7	13.2	11.9	11.4	9.2	9.2	9.2	9.2	9.2	9.2
1150	14.9	15.3	13.0	12.3	11.1	11.0	11.0	10.5	9.2	8.7	6.5	6.5	6.5	6.5	6.5	6.5
1200	12.2	12.6	10.3	9.6	8.4	8.3	8.3	7.8	6.5	6.0	3.8	3.8	3.8	3.8	3.8	3.8
1250	9.5	9.9	7.6	6.9	5.7	5.6	5.6	5.1	3.8	3.3	1.1	1.1	1.1	1.1	1.1	1.1
1300	6.8	7.2	4.9	4.2	3.0	2.9	2.9	2.4	1.1	0.6	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
1350	4.1	4.5	2.2	1.5	0.3	0.2	0.2	-0.3	-1.0	-1.5	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8
1400	1.4	1.8	-0.5	-1.2	-2.4	-2.3	-2.3	-2.8	-3.5	-4.0	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3
1450	-1.3	-1.7	-3.0	-3.7	-4.9	-4.8	-4.8	-5.3	-6.0	-6.5	-6.8	-6.8	-6.8	-6.8	-6.8	-6.8
1500	-4.0	-4.4	-5.7	-6.4	-7.6	-7.5	-7.5	-8.0	-8.7	-9.2	-9.5	-9.5	-9.5	-9.5	-9.5	-9.5
1550	-6.7	-7.1	-8.4	-9.1	-10.3	-10.2	-10.2	-10.7	-11.4	-11.9	-12.2	-12.2	-12.2	-12.2	-12.2	-12.2
1600	-9.4	-9.8	-11.1	-11.8	-13.0	-12.9	-12.9	-13.4	-14.1	-14.6	-14.9	-14.9	-14.9	-14.9	-14.9	-14.9
1650	-12.1	-12.5	-13.8	-14.5	-15.7	-15.6	-15.6	-16.1	-16.8	-17.3	-17.6	-17.6	-17.6	-17.6	-17.6	-17.6
1700	-14.8	-15.2	-16.5	-17.2	-18.4	-18.3	-18.3	-18.8	-19.5	-20.0	-20.3	-20.3	-20.3	-20.3	-20.3	-20.3
1750	-17.5	-17.9	-19.2	-19.9	-21.1	-21.0	-21.0	-21.5	-22.2	-22.7	-23.0	-23.0	-23.0	-23.0	-23.0	-23.0
1800	-20.2	-20.6	-21.9	-22.6	-23.8	-23.7	-23.7	-24.2	-24.9	-25.4	-25.7	-25.7	-25.7	-25.7	-25.7	-25.7
1850	-22.9	-23.3	-24.6	-25.3	-26.5	-26.4	-26.4	-26.9	-27.6	-28.1	-28.4	-28.4	-28.4	-28.4	-28.4	-28.4
1900	-25.6	-26.0	-27.3	-28.0	-29.2	-29.1	-29.1	-29.6	-30.3	-30.8	-31.1	-31.1	-31.1	-31.1	-31.1	-31.1
1950	-28.3	-28.7	-30.0	-30.7	-31.9	-31.8	-31.8	-32.3	-33.0	-33.5	-33.8	-33.8	-33.8	-33.8	-33.8	-33.8
2000	-31.0	-31.4	-32.7	-33.4	-34.6	-34.5	-34.5	-35.0	-35.7	-36.2	-36.5	-36.5	-36.5	-36.5	-36.5	-36.5
2050	-33.7	-34.1	-35.4	-36.1	-37.3	-37.2	-37.2	-37.7	-38.4	-38.9	-39.2	-39.2	-39.2	-39.2	-39.2	-39.2
2100	-36.4	-36.8	-38.1	-38.8	-40.0	-39.9	-39.9	-40.4	-41.1	-41.6	-41.9	-41.9	-41.9	-41.9	-41.9	-41.9
2150	-39.1	-39.5	-40.8	-41.5	-42.7	-42.6	-42.6	-43.1	-43.8	-44.3	-44.6	-44.6	-44.6	-44.6	-44.6	-44.6
2200	-41.8	-42.2	-43.5	-44.2	-45.4	-45.3	-45.3	-45.8	-46.5	-47.0	-47.3	-47.3	-47.3	-47.3	-47.3	-47.3
2250	-44.5	-44.9	-46.2	-46.9	-48.1	-48.0	-48.0	-48.5	-49.2	-49.7	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
2300	-47.2	-47.6	-48.9	-49.6	-50.8	-50.7	-50.7	-51.2	-51.9	-52.4	-52.7	-52.7	-52.7	-52.7	-52.7	-52.7
2350	-49.9	-50.3	-51.6	-52.3	-53.5	-53.4	-53.4	-53.9	-54.6	-55.1	-55.4	-55.4	-55.4	-55.4	-55.4	-55.4
2400	-52.6	-53.0	-54.3	-55.0	-56.2	-56.1	-56.1	-56.6	-57.3	-57.8	-58.1	-58.1	-58.1	-58.1	-58.1	-58.1
2450	-55.3	-55.7	-57.0	-57.7	-58.9	-58.8	-58.8	-59.3	-60.0	-60.5	-60.8	-60.8	-60.8	-60.8	-60.8	-60.8
2500	-58.0	-58.4	-59.7	-60.4	-61.6	-61.5	-61.5	-62.0	-62.7	-63.2	-63.5	-63.5	-63.5	-63.5	-63.5	-63.5

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS									
(C-7A AIRCRAFT										) OMEGA 8.2									
(ENG. R-2000-7M2										) TEST 74-372-001									
(GROUND RUNUP										) SUN 31									
(OPERATIONS:										) METEOROLOGY:									
(IDLE POWER, C-7A										) TEMP = 59 F									
(SINGLE ENGINE, OCC RPM										) BAR PRESS = 29.92 IN HG									
(GROUND RUNUP										) REL HUMID = 73 %									
(										) DELTA M = -3.4 OB									
(										) AIRCRAFT CODE 072									
(										) OPERATION CODE 30213									
(										) PROFILE VERSION A									
(										) 10 MAY 75									
(										) PAGE 61									
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	62.9	64.1	61.8	61.2	60.4	60.3	60.5	60.4	58.8	57.1	55.7	56.0	63.3	63.3	62.9	62.2	61.6	57.3	58.5
250	63.8	62.0	59.6	59.1	58.3	58.2	58.4	58.2	50.7	50.0	51.6	54.4	57.9	60.9	60.6	59.9	59.4	55.7	56.5
315	58.7	59.9	57.3	56.9	56.2	56.3	56.3	56.2	44.7	52.9	51.5	52.1	55.5	58.4	58.3	57.5	57.1	53.5	54.4
400	56.5	57.7	55.3	54.7	54.3	53.8	54.1	54.1	52.5	50.8	49.3	49.3	53.0	55.9	55.9	55.2	54.9	51.4	52.2
500	54.3	55.5	53.1	52.5	51.8	51.5	51.9	51.9	50.3	48.6	47.1	47.4	53.4	53.3	53.4	52.7	52.5	49.1	50.1
630	52.0	53.1	50.7	50.1	49.4	49.3	49.7	49.6	48.0	46.3	44.8	42.3	47.7	50.6	50.9	50.2	50.1	46.8	47.8
800	49.6	50.7	48.3	47.7	47.0	46.9	47.3	47.2	45.5	44.0	42.4	42.4	45.0	47.7	48.2	47.7	47.6	44.3	45.4
1000	47.2	48.1	45.8	45.2	44.5	44.4	44.7	44.6	43.0	41.5	39.9	39.7	42.1	44.8	45.4	45.0	45.1	41.8	43.0
1250	44.6	45.4	43.1	42.5	41.9	41.7	42.1	41.9	40.3	38.9	37.3	36.8	39.1	41.7	42.5	42.3	42.4	39.2	40.4
1500	41.9	42.8	40.4	39.7	39.1	38.9	39.3	39.1	37.4	36.1	34.5	33.7	36.1	38.5	39.4	39.4	39.6	36.4	37.7
2000	39.0	39.6	37.5	36.8	36.2	36.0	36.3	36.0	34.2	33.0	31.4	30.4	32.7	35.1	36.4	36.5	36.8	33.6	35.2
2500	35.8	36.2	34.2	33.5	33.1	32.8	33.1	32.7	30.6	29.6	28.1	26.8	29.1	31.4	32.9	33.2	33.4	30.2	31.6
3150	32.2	32.5	30.6	30.0	29.6	29.4	29.7	29.2	26.8	25.9	24.5	23.0	25.3	27.5	29.0	29.5	29.7	26.4	27.8
4000	28.2	28.3	26.6	26.1	25.7	25.5	25.7	25.1	22.4	22.0	20.5	18.7	21.2	23.0	24.7	25.3	25.7	22.3	23.7
5000	23.8	23.9	22.2	21.6	21.5	21.3	21.5	20.8	17.8	17.8	16.3	14.2	16.9	18.4	20.0	20.8	21.3	17.9	19.2
6300	19.2	19.3	17.6	17.3	16.9	16.7	17.0	16.2	13.2	13.4	11.7	9.5	12.3	13.5	15.2	16.1	16.7	13.2	14.6
8000	15.4	15.6	13.9	13.4	12.8	12.6	12.8	12.0	9.5	9.6	7.9	5.7	8.3	9.3	11.0	12.2	12.9	9.7	11.1
10000	11.5	11.8	9.9	9.3	8.4	8.1	8.5	7.6	5.9	5.8	3.9	1.7	4.2	5.8	6.7	8.1	8.9	6.1	7.5
12500	7.3	7.8	5.7	5.0	3.9	3.6	4.1	3.4	2.5	2.1	.9	.9	.9	.9	2.5	3.9	4.7	2.2	3.6
16000	2.9	3.6	1.4	.5															
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-7A AIRCRAFT
 ENG. R-2000-7M2
 GROUND RUNUP
 OPERATIONS:
 IDLE POWER, C-7A
 SINGLE ENGINE, 600 RPM
 GROUND RUNUP
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 73 %
 DELTA N = -3.0 DB
 IDENTIFICATION:
 OMEGA 8.2
 TEST 74-072-001
 RUN 01
 AIRCRAFT CODE 872
 OPERATION CODE 8213
 PROFILE VERSION A
 18 MAY 76
 PAGE J1

ANGLE IN DEGREES	P=PNLT										T=ALT												
	-20	-10	3	10	20	30	40	50	60	70	80	-20	-10	3	10	20	30	40	50	60	70	80	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
C-7A AIRCRAFT																
ENG. R-2000-7M2																
GROUND RUNUP																
OPERATION:																
TAXI POWER, C-7A																
SINGLE ENGINE, 1000 RPM																
GROUND RUNUP																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -3.0 DB																
BAND CENTER																
FREQ (HZ)																
50	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
63	75	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61
80	76	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62
100	75	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61
125	76	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62
160	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
200	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
250	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
315	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
400	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
500	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
630	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
800	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
1000	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
1250	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
1600	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
2000	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
2500	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
3150	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
4000	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
5000	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
6300	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
8000	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
10000	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
OVERALL	85	85	84	83	82	81	80	81	81	81	80	76	70	78	79	81
XXX = EXTRAPOLATED OR INTERPOLATED SPL																

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	90.4	90.2	89.2	88.2	86.5	85.1	83.2	83.3	82.9	82.0	82.2	79.1	80.3	82.5	82.6	82.8	83.8	84.2	84.2	78.2
250	88.2	88.0	86.9	84.1	82.7	80.8	81.0	80.6	79.7	79.8	77.9	76.8	77.9	80.1	80.3	80.5	81.4	81.9	81.9	75.9
315	85.9	85.7	84.6	83.6	81.7	80.3	78.4	78.2	77.3	77.4	74.4	73.5	75.5	77.6	77.8	78.1	79.0	79.5	79.5	73.5
400	83.6	83.3	82.2	81.1	79.2	77.9	75.9	75.7	74.9	75.0	71.9	70.4	72.3	72.7	72.7	73.0	74.0	74.5	74.5	71.1
500	81.2	81.0	79.6	78.5	76.7	75.3	73.4	73.1	72.4	72.5	69.3	70.4	72.3	72.7	72.7	73.0	74.0	74.5	74.5	68.5
630	78.8	78.0	76.9	75.9	74.1	72.8	70.8	70.4	69.6	69.7	66.5	67.6	69.5	69.9	69.9	70.3	71.2	71.7	71.7	65.7
800	76.2	75.4	74.3	73.1	71.3	69.9	67.9	67.8	67.5	66.7	63.5	64.5	66.5	66.9	67.4	68.6	68.6	68.9	68.9	62.7
1000	73.6	72.7	71.6	70.3	68.1	66.7	64.7	64.7	64.3	63.5	60.2	61.2	63.1	63.1	63.7	64.3	65.8	66.1	66.1	59.7
1250	70.7	69.8	68.7	67.4	64.6	63.2	61.2	61.2	60.8	60.1	56.5	57.6	59.4	59.4	60.0	60.9	62.8	63.1	63.1	56.5
1500	67.6	66.8	65.6	64.3	60.9	59.4	57.4	57.2	56.9	56.3	52.1	53.3	55.2	55.9	57.5	59.5	59.8	59.8	59.8	52.9
2000	64.5	63.5	62.3	60.9	57.3	55.9	53.0	52.6	52.4	51.5	47.3	48.7	50.4	50.4	51.8	53.7	55.9	56.2	56.2	49.0
2500	60.4	59.3	58.0	56.5	52.7	49.7	48.1	47.3	47.2	46.4	42.4	43.6	45.2	45.2	46.8	48.8	51.3	51.7	51.7	43.7
3150	55.5	54.4	53.1	51.3	47.2	44.3	42.5	41.5	40.3	40.0	36.3	37.4	38.9	38.9	40.9	43.3	45.6	46.2	46.2	37.3
4000	50.6	49.6	48.1	45.7	41.0	38.4	36.8	35.7	34.5	33.5	32.2	27.7	27.9	29.8	32.5	37.0	39.0	39.7	39.7	28.1
5000	43.4	42.1	40.7	39.5	33.5	29.6	28.1	23.9	23.7	23.8	18.5	14.9	17.0	21.0	26.8	30.6	31.8	31.8	31.8	19.2
6300	36.1	35.0	33.2	31.3	23.9	19.9	16.7	8.1	8.1	11.3	9.5	0.2	1.9	4.1	6.9	11.0	14.9	16.1	16.1	7.5
8000	30.0	28.7	26.7	23.7	15.3	8.2	5.3													
10000	23.7	24.6	19.8	16.5	6.8															
12500	15.2	12.6	13.7	6.8																
15000	6.7	4.5	1.6																	
20000																				
25000																				
NOISE SOURCE/SUBJECT:																				
(C-7A AIRCRAFT)																				
(TAXI POWER, C-7A)																				
(SINGLE ENGINE, 1000 RPM)																				
(GROUND RUNUP)																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
18 MAY 76																				
PAGE 02																				
IDENTIFICATIONS:																				
OMEGA 8.2																				
TEST 74-372-001																				
RUN 02																				
AIRCRAFT CODE 072																				
OPERATION CODE 22215																				
PROFILE VERSION A																				

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
DISTANCE (FEET)	ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	90.9	90.2	89.2	88.2	87.2	85.8	83.2	83.3	82.9	82.0	82.2	79.1	80.3	82.5	82.6	82.8	83.8	84.8	85.2	85.9
350	88.7	88.0	86.9	85.9	84.8	83.4	80.8	81.0	80.6	79.7	79.8	76.6	77.9	80.1	80.3	80.5	81.4	82.5	82.5	82.9
400	86.4	85.7	84.6	83.6	82.4	81.0	78.4	78.6	78.2	77.3	77.4	74.4	75.5	77.6	77.8	78.1	79.0	80.1	80.1	80.5
500	84.1	83.3	82.2	81.1	80.0	78.6	75.9	76.1	75.7	74.9	75.0	71.9	73.0	75.1	75.4	75.6	76.6	77.6	77.6	78.1
630	81.7	80.7	79.6	78.5	77.5	76.1	73.4	73.6	73.1	72.4	72.5	69.3	70.4	72.3	72.7	73.0	74.0	75.1	75.1	75.5
800	79.3	78.0	76.9	75.9	74.9	73.5	70.8	70.8	70.4	69.6	69.7	66.5	67.6	69.5	69.9	70.4	71.2	72.3	72.3	72.7
1000	76.8	75.4	74.3	73.1	72.0	70.6	67.9	67.8	67.5	66.7	66.7	63.5	64.5	66.5	66.9	67.4	68.6	69.4	69.4	69.7
1250	74.1	72.7	71.6	70.3	69.0	67.4	64.7	64.7	64.3	63.5	63.6	60.2	61.2	63.1	63.7	64.3	65.8	66.7	66.7	67.1
1500	71.3	69.8	68.7	67.4	66.4	64.9	61.2	61.2	60.8	60.1	60.1	56.5	57.6	59.4	60.0	60.9	62.8	63.6	63.6	64.0
2000	68.3	66.8	65.6	64.3	63.6	62.1	57.4	57.2	56.9	56.0	56.0	52.1	53.3	55.2	55.9	57.5	59.5	60.4	60.4	60.8
2500	65.0	63.5	62.3	60.9	60.0	58.6	53.0	52.6	52.4	51.5	51.2	47.3	48.7	50.4	51.8	53.7	55.9	56.8	56.8	57.2
3150	60.9	59.3	58.0	56.5	55.4	54.4	48.1	47.3	47.2	46.4	45.9	42.4	43.6	45.2	46.8	48.8	51.3	52.3	52.3	52.7
4000	56.1	54.4	53.1	51.3	50.9	49.3	42.5	41.5	41.0	40.5	39.3	36.3	37.4	38.9	40.9	43.4	45.6	46.8	46.8	47.2
5000	50.4	48.6	47.1	45.7	44.6	43.9	36.8	33.7	33.5	33.5	32.2	27.7	27.9	29.8	32.5	37.6	39.8	40.2	40.2	40.6
6300	43.7	42.1	40.7	39.5	38.5	38.1	28.1	23.9	23.7	23.5	23.5	18.0	14.9	17.0	21.1	26.8	30.6	32.1	32.1	32.5
8000	36.3	35.0	33.2	31.3	29.2	29.2	16.7	8.1	6.1	11.9	9.5	8.2	1.9	4.1	6.9	19.1	22.4	23.8	23.8	24.2
10000	30.1	28.5	26.7	23.7	15.5	8.3	5.3									11.0	14.9	16.2	16.2	16.6
12500	23.7	20.6	19.8	16.5	6.8											2.8	7.3	6.9	6.9	7.3
15000	15.2	12.6	10.7	6.8																
16000	6.7	4.5	1.6																	
20000																				
25000																				

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
IDENTIFICATIONS:																
OMEGA 8.2																
TEST 74-072-001																
AIRCRAFT CODE 072																
OPERATION CODE 00215																
PROFILE VERSION A																
10 MAY 76																
PAGE 62																
METEOROLOGICAL DATA																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	76.7	75.5	74.5	73.5	71.4	69.9	68.1	67.7	67.3	66.7	66.3	63.9	63.8	66.6	66.7	67.6
250	74.6	73.5	72.4	71.4	69.3	67.8	66.0	65.6	65.3	64.6	64.3	61.7	62.7	64.3	64.5	65.5
315	72.6	71.4	70.3	69.4	67.2	65.7	63.9	63.5	63.1	62.5	62.2	59.6	60.5	62.1	62.3	63.4
400	70.4	69.3	68.2	67.2	65.1	63.6	61.7	61.4	61.0	60.4	60.0	57.4	58.3	59.8	60.1	61.3
500	68.3	67.1	66.0	65.0	62.8	61.3	59.5	59.1	58.7	58.1	57.8	55.2	56.0	57.4	57.8	59.1
630	66.0	64.8	63.7	62.7	60.5	59.0	57.1	56.7	56.3	55.8	55.5	52.8	53.6	54.9	55.4	56.7
800	63.6	62.4	61.3	60.3	58.1	56.6	54.7	54.2	53.8	53.4	53.0	50.4	51.1	52.2	52.8	54.3
1000	61.2	59.9	58.9	57.8	55.5	54.0	52.1	51.5	51.2	50.8	50.5	47.8	48.4	49.5	50.2	51.8
1250	58.7	57.3	56.3	55.1	52.8	51.3	49.3	48.7	48.4	48.1	47.7	45.1	45.6	46.5	47.4	49.2
1500	56.0	54.6	53.5	52.4	50.0	48.4	46.5	45.7	45.4	45.2	44.8	42.2	42.6	43.4	44.4	46.4
2000	53.3	51.7	50.7	49.5	47.1	45.4	43.4	42.5	42.1	42.2	41.8	39.2	39.5	40.2	41.3	43.6
2500	50.0	48.4	47.5	46.2	43.6	42.1	40.1	39.0	38.7	38.9	38.4	35.8	36.0	36.6	37.8	40.3
3150	46.3	44.7	43.9	42.6	40.2	38.5	36.6	35.2	34.9	35.4	34.8	32.3	32.5	32.7	34.1	36.8
4000	42.1	40.7	39.9	38.7	36.1	34.5	32.6	31.2	30.9	31.5	30.9	28.3	28.5	28.5	30.0	34.1
5000	37.5	36.3	35.6	34.4	31.7	30.2	28.7	27.0	26.8	27.5	26.8	24.2	24.1	24.1	25.8	29.8
6300	32.8	31.7	31.0	29.9	27.1	25.6	24.3	22.6	22.3	23.1	22.4	20.2	19.6	19.6	21.3	24.3
8000	29.2	28.2	27.5	26.2	23.2	21.5	20.2	18.6	18.3	19.1	18.5	16.2	15.7	15.3	17.6	20.7
10000	25.4	24.4	23.6	22.3	19.0	17.3	15.9	14.5	14.3	15.0	14.4	12.0	11.7	12.0	13.7	16.8
12500	21.3	20.4	19.5	18.2	14.7	13.0	11.5	10.4	10.2	10.7	10.3	7.6	7.5	8.2	9.7	12.7
16000	17.1	16.1	15.2	13.8	10.4	8.7	7.0	6.5	6.3	6.4	6.2	3.2	3.4	4.4	5.7	8.4
20000	12.5	11.6	10.6	9.2	6.1	4.5	2.8	2.8	2.7	2.5	2.3			.6	1.8	3.9
25000	7.6	6.9	5.9	4.6	1.9	.6										

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-7A AIRCRAFT
 ENG. R-2000-742
 GROUND RUNUP
 () OPERATION:
 () TAXI POWER, C-7A
 () SINGLE ENGINE, 1000 RPM
 () GROUND RUNUP
 () METEOROLOGY:
 () TEMP = 59 F
 () BAR PRESS = 29.92 IN HG
 () REL HUMID = 70 %
 () DELTA N = -3.0 DB
 IDENTIFICATION:
 () OMEGA 8.2
 () TEST 74-072-001
 () RUN 02
 () AIRCRAFT CODE 072
 () OPERATION CODE 00215
 () PROFILE VERSION A
 () 18 MAY 76
 () PAGE J2

ANGLE IN DEGREES	P=PNLT										A=AL										T=ALT													
	-10	0	10	20	30	40	50	60	70	80	90	-10	0	10	20	30	40	50	60	70	80	90	-10	0	10	20	30	40	50	60	70	80	90	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				
1/3 OCTAVE BAND																				
DISTANCE = 250 FEET																				
NOISE SOURCE/SUBJECT: (OPERATION:)																				
C-7A AIRCRAFT (POWER RUNUP, C-7A)																				
ENG. R-200J-7M2 (SINGLE ENGINE, 2450 RPM)																				
GROUND RUNUP (GROUND RUNUP)																				
()																				
METEOROLOGY:)																				
TEMP = 59 F)																				
BAR PRESS = 29.92 IN HG)																				
REL HUMID = 70 %)																				
DELTA N = -3.0 DB)																				
IDENTIFICATION:)																				
OMEGA 8.2)																				
TEST 74-072-001)																				
RUM 03)																				
AIRCRAFT CODE 072)																				
OPERATION CODE 00209)																				
PROFILE VERSION A)																				
18 MAY 76)																				
PAGE C3)																				
BAND CENTER																				
FREQ (HZ)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
81	79	79	77	81	82	81	76	78	84	85	85	89	89	83	77	71	72	52	52	52
93	91	91	89	94	95	94	90	92	99	99	100	103	102	97	91	83	84	64	64	64
79	80	79	80	81	82	84	86	88	88	87	86	88	88	85	80	73	76	56	56	56
81	84	88	86	82	83	88	92	91	82	84	87	86	86	86	77	78	79	59	59	59
125	92	93	96	97	94	93	92	94	99	99	99	95	96	94	88	84	85	65	65	65
160	92	94	91	90	90	89	88	92	89	88	88	90	90	89	86	79	79	59	59	59
200	96	98	96	90	91	87	87	88	94	92	91	92	92	94	84	78	79	59	59	59
250	98	97	94	91	87	87	87	85	84	81	78	87	87	86	81	80	83	63	63	63
315	96	95	90	88	86	84	82	80	79	76	77	78	83	86	82	80	82	62	62	62
400	96	95	91	89	90	86	83	81	78	79	80	81	84	86	89	82	76	81	61	61
500	93	93	90	86	85	82	78	76	79	80	81	83	85	87	80	76	81	61	61	61
630	90	91	89	88	83	82	79	80	78	79	80	81	82	86	80	75	80	60	60	60
800	89	88	87	85	82	82	79	82	79	80	81	82	86	88	80	75	80	60	60	60
1000	85	85	83	82	79	81	78	80	79	79	79	81	83	86	79	72	77	57	57	57
1250	82	83	82	81	79	80	81	80	82	79	79	81	81	84	78	70	75	55	55	55
1600	81	82	82	82	79	80	82	81	83	79	78	83	82	82	76	69	73	53	53	53
2000	81	81	80	80	79	80	81	80	81	78	77	83	82	81	75	68	72	52	52	52
2500	80	81	79	79	79	80	79	78	78	77	77	84	84	82	74	68	72	52	52	52
3150	78	77	77	77	78	78	77	76	76	76	75	82	84	82	72	66	70	50	50	50
4000	77	78	77	77	78	78	77	76	76	75	75	82	84	82	72	66	70	50	50	50
5000	73	74	74	74	76	75	77	75	72	71	71	77	79	77	68	63	65	45	45	45
6300	72	72	73	72	74	75	73	73	70	70	69	74	77	73	65	60	63	43	43	43
8000	71	71	72	71	73	74	73	72	70	69	69	73	76	72	64	59	62	42	42	42
10000	70	71	72	71	73	75	73	72	69	69	69	73	75	71	64	59	62	42	42	42
OVERALL	105	105	103	101	101	100	99	101	103	103	103	105	104	102	96	90	93	73	73	73
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECTS:																				
C-7A AIRCRAFT																				
ENG. R-2000-7H2																				
GROUND RUNUP																				
OPERATION:																				
POWER RUNUP, C-7A																				
SINGLE ENGINE, 2450 RPM																				
GROUND RUNUP																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA M = -3.8 DB																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-072-001																				
AIRCRAFT CODE 072																				
OPERATION CODE 00209																				
PROFILE VERSION A																				
18 MAY 76																				
PAGE D3																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	>180
200	112.9	112.9	111.2	109.7	109.1	108.6	109.4	107.7	109.2	108.7	108.6	108.6	111.6	112.7	111.4	103.9	98.5	101.7	81.1	
250	110.6	110.6	109.1	107.5	107.0	106.4	107.2	105.5	107.1	106.6	106.5	106.4	109.4	110.4	109.2	101.7	96.3	99.5	78.9	
315	108.7	108.6	106.9	105.4	104.8	104.1	104.9	103.2	104.9	104.4	104.3	104.3	107.1	108.1	106.9	99.4	94.1	97.3	76.6	
400	106.5	106.4	104.6	103.2	102.5	101.8	102.2	100.8	102.6	102.2	102.1	102.1	104.8	105.7	104.6	97.1	91.8	95.1	74.3	
500	104.2	104.8	102.2	100.8	100.2	99.3	100.1	98.4	100.2	99.9	99.8	99.7	102.4	103.2	102.1	94.7	89.4	92.7	71.9	
630	101.7	101.5	99.7	98.3	97.7	96.8	97.5	95.8	97.6	97.3	97.2	97.2	99.8	100.6	99.6	92.1	87.8	90.3	69.5	
800	99.2	99.1	97.0	95.6	95.2	94.1	94.6	93.1	94.8	94.6	94.5	94.5	97.2	97.9	96.9	89.5	84.4	87.7	65.9	
1000	96.7	96.5	94.3	93.8	92.5	91.2	91.9	91.2	91.9	91.7	91.6	91.6	94.6	94.9	94.1	86.9	81.7	85.1	64.2	
1250	94.0	93.8	91.5	90.2	89.7	88.2	88.7	87.8	88.7	88.6	88.5	88.5	91.9	92.1	91.1	84.1	78.6	82.3	61.3	
1600	91.1	90.9	88.6	87.2	86.7	85.1	85.4	83.6	85.2	85.0	84.9	85.0	88.5	88.5	88.1	81.1	75.6	79.4	58.2	
2000	88.2	87.9	85.4	84.1	83.6	81.9	81.8	80.0	81.7	81.0	80.9	81.0	84.4	84.7	84.9	77.9	72.4	76.3	54.9	
2500	85.3	84.0	81.6	80.6	79.6	78.0	77.8	76.1	77.9	76.5	76.5	76.6	80.0	80.5	81.4	74.8	68.5	72.5	50.6	
3150	80.1	79.4	77.4	76.6	75.2	73.8	73.5	71.9	73.7	71.5	71.5	71.5	75.4	76.3	77.3	69.9	64.3	68.4	46.8	
4000	75.4	75.2	72.9	72.1	70.3	69.3	68.8	67.1	68.9	66.5	66.6	67.0	70.5	71.7	72.8	65.4	59.7	64.9	43.8	
5000	70.5	70.4	68.1	67.3	65.9	64.3	63.8	61.9	63.9	61.3	61.7	62.2	65.4	67.0	68.8	60.3	54.6	59.1	34.7	
6300	65.6	65.5	63.0	62.2	59.7	58.0	58.5	56.3	58.3	55.9	56.4	56.9	59.8	61.7	62.9	55.2	49.1	53.9	26.8	
8000	61.8	61.7	59.1	58.3	55.5	54.8	54.0	51.0	53.7	51.2	51.6	52.2	55.5	57.2	58.7	50.9	44.2	49.4	19.1	
10000	57.6	57.4	54.7	53.8	51.1	50.2	48.7	45.5	48.3	45.5	46.1	47.0	50.5	52.2	54.2	45.8	38.7	44.1	9.7	
12500	53.0	52.8	49.9	49.0	45.9	44.8	42.7	39.3	42.0	39.3	40.1	41.2	45.0	46.9	49.3	40.4	32.7	38.3	.3	
16000	48.0	47.7	44.4	43.5	39.9	38.6	36.4	32.8	35.0	33.0	33.2	34.6	38.7	40.9	43.6	33.8	25.4	32.3		
20000	42.0	41.7	38.2	36.7	33.6	31.1	28.6	24.6	26.1	24.9	25.8	26.7	31.4	34.1	36.4	24.6	14.8	23.4		
25000	34.7	34.5	30.6	28.8	24.4	20.2	15.0	10.4	12.9	15.6	14.0	15.4	21.1	24.0	28.3	12.7	4.2	11.0		
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PHN03)																						
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																						
NOISE SOURCE/SUBJECT:																						
C-7A AIRCRAFT																						
ENG. R-2000-7M2																						
GROUND RUNUP																						
OPERATION:																						
POWER RUNUP, C-7A																						
SINGLE ENGINE, 2450 RPM																						
GROUND RUNUP																						
METEOROLOGY:																						
TEMP = 59 F																						
BAR PRESS = 29.92 IN HG																						
REL HUMID = 75 %																						
DELTA N = -3.0 DB																						
ANGLE (DEGREES)																						
DISTANCE																						
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
200	113.9	112.9	112.2	111.1	110.5	109.7	110.2	107.7	110.2	111.0	110.7	110.5	112.8	113.9	112.5	104.9	99.4	100.7	82.1			
250	111.8	110.8	110.1	109.0	108.3	107.5	107.9	105.5	108.0	108.9	108.5	108.3	110.6	111.6	110.3	102.7	97.2	100.5	79.9			
315	109.7	108.6	107.9	106.8	106.1	105.2	105.7	103.2	105.3	105.7	105.4	105.2	108.3	109.2	108.0	100.4	95.0	98.3	77.6			
400	107.5	106.4	105.7	104.6	103.9	102.9	103.3	100.8	103.6	104.5	104.2	103.9	106.0	106.9	105.6	98.1	92.8	96.1	75.3			
500	105.2	104.0	103.2	102.3	101.5	100.5	100.8	98.4	101.1	102.1	101.8	101.6	103.6	104.4	103.2	95.7	90.4	93.7	72.9			
630	102.7	101.5	100.7	99.7	99.1	97.9	98.3	95.8	98.5	99.6	99.3	99.1	101.1	101.8	100.6	93.1	87.9	91.3	70.4			
800	100.2	99.1	98.0	97.1	96.6	95.2	95.5	93.1	95.8	96.8	96.5	96.4	98.4	99.0	98.0	90.6	85.3	88.7	67.9			
1000	97.7	96.5	95.3	94.4	93.9	92.3	92.6	90.2	92.9	94.0	93.7	93.5	95.8	96.1	95.1	87.9	82.6	86.1	65.1			
1250	95.0	93.8	92.5	91.6	91.1	89.3	89.5	87.0	89.7	90.8	90.6	90.4	93.1	93.2	92.2	85.1	79.5	83.3	62.3			
1500	92.2	90.9	89.6	88.6	88.1	86.2	86.1	83.6	86.2	87.2	87.0	86.8	89.7	89.7	88.1	82.1	76.5	80.4	59.2			
2000	83.2	81.9	80.6	79.5	78.9	77.0	76.9	74.4	77.0	78.0	77.8	77.6	80.5	80.5	78.9	73.4	67.8	71.7	50.9			
2500	81.1	79.8	78.4	77.0	76.6	75.0	74.3	71.9	74.0	75.0	74.8	74.6	77.5	77.4	75.8	70.3	64.7	68.6	48.9			
3150	76.2	75.2	73.7	72.3	71.4	70.2	69.4	67.1	69.7	70.7	70.5	70.3	73.2	73.2	71.6	66.1	60.5	64.4	44.6			
4000	71.1	70.4	69.7	68.1	67.8	66.4	65.3	63.0	65.8	66.8	66.6	66.4	69.3	69.3	67.7	62.2	56.6	60.5	40.7			
5000	68.0	66.5	65.4	64.4	64.0	62.8	62.0	60.2	63.0	64.0	63.8	63.6	66.5	66.5	64.9	59.4	53.8	57.7	37.9			
6300	62.0	61.7	60.3	59.3	58.5	57.0	56.1	54.1	56.9	57.9	57.7	57.5	60.4	60.4	58.8	53.3	47.7	51.6	32.9			
8000	57.6	57.4	56.0	55.0	54.4	53.0	52.2	50.2	53.0	54.0	53.8	53.6	56.5	56.5	54.9	49.4	43.8	47.7	28.9			
10000	53.0	52.8	51.4	50.4	49.8	48.4	47.6	45.6	48.4	49.4	49.2	49.0	51.9	51.9	50.3	44.8	39.2	43.1	24.9			
12500	48.0	47.7	46.3	45.3	44.7	43.3	42.5	40.5	43.3	44.3	44.1	43.9	46.8	46.8	45.2	39.7	34.1	38.0	20.9			
15000	42.0	41.7	40.3	39.3	38.7	37.3	36.5	34.5	37.3	38.3	38.1	37.9	40.8	40.8	39.2	33.7	28.1	32.0	19.9			
20000	34.7	34.5	33.1	32.1	31.5	30.1	29.3	27.3	30.1	31.1	30.9	30.7	33.6	33.6	32.0	26.5	20.9	24.8	16.9			
25000	34.7	34.5	33.1	32.1	31.5	30.1	29.3	27.3	30.1	31.1	30.9	30.7	33.6	33.6	32.0	26.5	20.9	24.8	16.9			
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																						

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 8. A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:										(OPERATION:) METEOROLOGY:) AIRCRAFT									
C-7A AIRCRAFT										(POWER RUNUP, C-7A) TEMP) OPERATION CODE 06289									
ENG. R-2000-742										(SINGLE ENGINE, 2450 RPM) BAR PRESS =29.92 IN HG) PROFILE VERSION A									
GROUND RUNUP										(GROUND RUNUP) REL HUMID = 70 %) 15 MAY 76									
										() DELTA N = -3.8 DB) PAGE F3									
DISTANCE										ANGLE (DEGREES)																													
(FEET)																																							
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180																					
200	100.3	106.2	97.0	96.6	94.9	94.4	94.8	92.9	94.6	92.7	92.6	92.7	95.2	97.1	97.7	90.7	85.7	89.2																					
250	93.3	98.1	95.0	94.5	92.8	92.2	92.6	90.7	92.4	90.6	93.5	90.6	94.0	95.1	95.6	88.6	83.2	87.1																					
315	96.2	93.0	93.7	92.4	90.7	90.1	90.4	88.5	90.3	88.4	88.4	88.4	91.8	92.9	93.5	86.5	81.1	85.0																					
400	98.1	96.0	91.5	90.2	88.5	87.8	88.2	86.3	88.0	86.3	86.2	86.3	89.6	90.7	91.3	84.3	78.9	82.9																					
500	91.9	91.8	89.3	88.1	86.2	85.6	85.9	84.0	85.7	84.0	83.9	84.0	87.3	88.3	89.1	82.1	76.8	80.7																					
600	89.7	89.5	87.1	85.8	83.9	83.3	83.5	81.6	83.3	81.6	81.5	81.7	84.9	85.3	86.0	79.9	74.5	78.5																					
800	87.4	87.2	84.7	83.5	81.6	80.9	81.0	79.1	80.9	79.1	79.0	79.2	82.4	83.5	84.4	77.6	72.2	76.2																					
1000	85.1	84.8	82.3	81.1	79.2	78.4	78.4	76.5	78.3	76.4	76.5	76.7	79.8	80.9	82.0	75.2	69.8	73.8																					
1250	82.6	82.3	79.8	78.7	76.5	75.8	75.8	73.8	75.6	73.7	73.8	74.1	77.1	78.3	79.5	72.7	67.3	71.4																					
1500	80.8	79.8	77.2	76.1	74.0	73.2	73.0	71.0	72.8	70.8	71.0	71.3	74.3	75.5	76.9	70.1	64.7	68.8																					
2000	77.4	77.1	74.5	73.5	71.4	70.5	70.1	68.0	69.8	67.8	68.0	68.4	71.3	72.7	74.3	67.4	62.8	66.2																					
2500	74.3	74.0	71.5	70.5	68.2	67.4	66.9	64.8	66.6	64.4	64.8	65.3	68.1	69.5	71.3	64.5	58.9	63.3																					
3150	70.8	70.6	68.2	67.2	64.6	64.8	63.5	61.3	63.2	61.9	61.3	61.9	64.6	66.2	68.1	61.2	55.6	60.1																					
4000	67.0	66.8	64.3	63.6	60.7	60.3	59.4	57.5	59.5	57.1	57.6	58.2	60.8	62.5	64.5	57.6	52.0	56.5																					
5000	62.7	62.5	60.3	59.4	56.4	56.1	55.7	53.4	55.4	53.0	53.5	54.1	56.6	58.4	60.5	53.5	47.8	52.4																					
6300	58.2	58.1	55.9	55.0	51.9	51.7	51.3	48.9	51.0	49.6	49.1	49.8	52.1	54.0	56.2	49.2	43.4	48.1																					
8000	54.7	54.5	52.2	51.3	48.2	47.8	47.2	44.6	46.8	44.5	45.1	45.8	48.0	50.1	52.3	45.3	39.7	44.3																					
10000	50.8	50.6	48.2	47.3	44.2	43.6	42.8	40.1	42.2	40.2	40.8	41.6	43.7	45.9	48.1	41.0	35.6	40.1																					
12500	46.6	46.3	43.8	43.0	39.1	38.1	37.4	35.4	37.4	35.7	36.3	37.1	39.2	41.3	43.5	36.4	31.1	35.6																					
15000	42.0	41.7	39.1	38.2	35.4	34.3	33.1	30.4	32.4	31.1	31.7	32.4	34.4	36.4	38.5	31.4	26.3	30.6																					
20000	36.9	36.6	33.9	33.0	30.5	29.1	27.8	25.3	27.2	25.7	27.1	27.7	29.6	31.1	33.0	25.9	21.0	25.2																					
25000	31.4	31.1	28.3	27.3	25.2	23.6	22.4	20.3	22.3	20.6	22.8	23.2	24.8	25.8	27.1	20.2	15.4	19.2																					

► SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
IDENTIFICATION:																		
) OMEGA 8.2																		
) TEST 74-072-001																		
) RUN 03																		
) AIRCRAFT CODE 072																		
) OPERATION CODE 00209																		
) PROFILE VERSION A																		
) 18 MAY 76																		
) PAGE G3																		
) METEOROLOGY: = 59 F																		
) TEMP																		
) BAR PRESS = 29.92 IN HG																		
) REL HUMID = 73 %																		
) DELTA N = -3.0 DB																		
ANGLE (DEGREES)																		
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																		
DISTANCE																		
(:FEET)																		
200	101.3	103.2	96.9	98.0	96.3	95.5	95.5	92.9	95.5	95.0	94.7	94.6	97.4	98.5	98.8	91.7	86.2	90.2
250	99.3	94.1	96.8	95.9	94.2	93.3	93.4	90.7	93.4	92.0	92.6	92.5	95.2	96.3	95.7	89.6	84.1	88.1
315	97.2	90.0	94.7	93.8	92.0	91.2	91.2	88.5	91.2	90.7	90.4	90.3	93.0	94.1	94.5	87.5	82.0	86.0
400	95.1	93.9	92.6	91.7	89.9	89.0	89.0	86.3	89.0	88.5	88.3	88.2	90.8	91.8	92.3	85.4	79.9	83.8
500	93.0	91.8	90.4	89.5	87.6	86.7	86.6	84.0	86.7	86.2	86.0	85.9	88.5	89.5	90.1	83.1	77.7	81.7
630	90.7	89.5	88.1	87.2	85.3	84.4	84.2	81.6	84.3	83.8	83.6	83.5	86.1	87.1	87.8	80.9	75.4	79.4
800	88.4	87.2	85.3	84.9	83.0	82.0	81.8	79.1	81.8	81.3	81.1	81.1	83.6	84.5	85.5	78.6	73.1	77.2
1000	86.1	84.8	83.4	82.6	80.5	79.5	79.2	76.5	79.2	78.7	78.5	78.6	81.0	82.1	83.1	76.2	70.8	74.8
1250	83.6	82.3	80.8	80.1	78.0	77.0	76.5	73.8	76.5	75.9	75.9	75.9	78.3	79.4	80.6	73.7	68.2	72.4
1600	81.0	79.8	78.2	77.6	75.4	74.3	73.8	71.0	73.7	73.0	73.0	73.2	75.5	76.7	78.0	71.1	65.6	69.8
2000	78.4	77.1	75.6	74.9	72.7	71.6	70.9	68.0	70.7	70.0	70.0	70.3	72.5	73.8	75.3	68.5	62.9	67.2
2500	75.3	74.0	72.5	72.0	69.5	68.5	67.7	64.8	67.6	66.7	65.8	67.1	69.3	70.7	72.4	65.5	59.9	64.3
3150	71.8	70.6	69.2	68.7	66.0	65.1	64.3	61.3	64.2	63.4	63.8	65.8	67.3	69.1	70.7	63.6	58.0	62.4
4000	67.8	66.8	65.3	64.7	61.8	61.2	60.5	57.5	60.3	58.9	59.2	59.7	61.7	63.4	65.4	58.4	52.7	57.3
5000	63.3	62.5	60.3	60.3	57.2	56.8	56.2	53.4	56.0	54.4	54.7	55.3	57.3	59.1	61.1	54.1	48.4	53.0
6300	58.6	58.1	56.3	55.6	52.4	52.1	51.6	48.9	51.4	49.5	49.9	50.5	52.6	54.5	56.6	49.6	43.8	48.4
8000	54.9	54.5	52.4	51.6	48.4	48.0	47.4	44.6	47.0	45.0	45.5	46.2	48.3	50.3	52.5	45.5	39.9	44.5
10000	50.8	50.6	48.2	47.3	44.2	43.8	42.8	40.1	42.2	40.2	40.8	41.6	43.7	45.9	48.1	41.0	35.6	40.1
12500	46.6	46.3	43.3	43.0	40.0	39.1	38.1	35.4	37.4	35.7	36.3	37.1	39.2	41.3	43.5	36.4	31.1	35.6
16000	42.0	41.7	39.1	38.2	35.4	34.3	33.1	30.4	32.4	31.1	31.7	32.4	34.4	36.4	38.5	31.4	26.3	30.6
20000	36.9	36.6	33.9	33.0	30.5	29.1	27.8	25.3	27.3	26.7	27.1	27.7	29.6	31.1	33.0	25.9	21.0	25.2
25000	31.4	31.1	28.3	27.3	25.2	23.6	22.4	20.3	22.3	22.6	22.8	23.2	24.8	25.8	27.1	20.2	15.4	19.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECTS:
 C-7A AIRCRAFT
 ENG. R-2800-7M2
 GROUND RUNUP
 IDENTIFICATIONS:
 OMEGA 0-2
 TEST 74-872-881
 RUN 83
 AIRCRAFT CODE 872
 OPERATION CODE 88289
 PROFILE VERSION A
 18 MAY 76
 PAGE J3
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 76 %
 DELTA M = -3.8 DB

	P=PMLY												A=AL												T=ALT											
	20	30	40	50	60	70	80	90	100	110	120	20	30	40	50	60	70	80	90	100	110	120	20	30	40	50	60	70	80	90	100	110	120			
8																																				
18																																				
28																																				
36																																				
40																																				
56																																				
68																																				
78																																				
80																																				
98																																				
103																																				
110																																				
128																																				
130																																				
148																																				
153																																				
160																																				
178																																				
>180																																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
C-7A AIRCRAFT																
ENG. R-2000-7M2																
GROUND RUNUP																
OPERATION:																
MAX TAKEOFF, C-7A																
SINGLE ENGINE, 2675 RPM																
GROUND RUNUP																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -3.0 DB																
AIRCRAFT CODE 072																
OPERATION CODE 30231																
PROFILE VERSION A																
16 MAY 76																
PAGE C4																
BAND CENTER																
FREQ (HZ)																
ANGLE (DEGREES)																
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180																
50	78	80	77	76	79	80	80	76	80	83	85	85	82	78	76	74
63	97	100	95	92	97	99	98	96	98	103	106	106	103	98	91	87
80	83	85	82	84	87	89	89	89	88	89	92	93	92	89	86	84
100	84	86	86	84	86	88	91	93	87	90	95	91	88	86	80	78
125	94	96	99	100	96	91	93	98	98	107	108	101	94	94	82	82
160	86	87	93	94	92	91	89	95	93	95	95	93	95	91	83	81
200	92	98	100	94	91	91	92	89	96	96	98	99	93	92	86	80
250	96	100	93	96	90	93	90	91	93	93	92	91	91	89	81	82
315	97	94	95	95	97	91	88	85	80	85	86	84	89	85	76	81
400	97	97	95	97	91	88	85	80	85	85	86	90	87	89	79	81
500	94	95	96	96	92	86	89	86	86	85	87	90	86	88	77	80
630	92	93	92	91	89	85	88	86	88	87	88	93	89	88	78	81
800	91	92	90	89	87	85	88	85	84	86	89	93	88	88	79	80
1000	88	89	88	86	84	83	87	85	87	86	89	92	86	82	79	80
1250	86	86	86	86	82	83	86	85	85	85	88	88	84	86	77	76
1600	84	86	86	85	82	84	85	84	85	86	89	90	85	86	77	75
2000	83	85	85	85	81	84	85	84	85	85	88	88	85	86	75	77
2500	82	84	83	85	80	84	85	85	85	85	88	89	85	85	74	74
3150	80	82	82	84	80	84	83	84	84	84	87	87	84	83	72	72
4000	80	82	82	84	80	84	83	83	84	84	86	87	83	83	71	72
5000	77	79	80	81	78	79	81	80	80	82	82	84	80	80	68	70
6300	76	77	78	80	76	77	79	79	78	80	80	82	78	78	67	69
8000	75	77	77	80	76	77	79	78	78	78	79	82	78	77	66	67
10000	75	76	77	80	76	77	79	78	76	76	79	82	77	77	66	68
OVERALL	105	107	106	106	103	103	103	103	104	109	111	109	108	105	101	94

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PN08)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-7A AIRCRAFT																			
ENG. R-2003-7M2																			
GROUND RUNUP																			
OPERATION:																			
MAX TAKEOFF, C-7A																			
SINGLE ENGINE, 2675 RPM																			
GROUND RUNUP																			
TEMP																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	114.2	115.7	115.1	115.4	111.4	112.7	113.2	112.8	113.7	115.2	117.6	117.4	114.0	113.4	108.3	103.0	103.7	104.8	84.4
250	112.1	113.5	113.0	113.2	109.3	110.5	110.9	110.6	111.5	113.3	115.4	115.2	111.8	111.2	106.1	100.7	101.5	102.6	82.2
315	109.9	111.3	110.8	111.1	107.1	108.2	108.7	108.3	109.2	111.9	113.3	112.9	109.6	108.9	103.0	98.5	99.3	100.3	79.8
400	107.7	109.1	108.5	108.8	104.8	105.8	106.3	106.0	106.9	109.6	111.0	110.6	107.3	106.5	101.5	96.1	97.0	98.0	77.4
500	105.4	106.8	106.1	106.5	102.5	103.3	103.9	103.5	104.5	107.3	108.7	108.1	105.0	104.2	99.1	93.7	94.6	95.5	74.9
630	103.1	104.3	103.5	104.1	100.1	100.7	101.3	101.0	101.9	104.7	106.1	105.6	102.4	101.6	96.5	91.1	92.0	92.9	72.3
800	100.6	101.7	101.0	101.6	97.6	98.0	98.7	98.3	99.2	102.0	103.4	102.9	99.9	99.0	93.8	88.3	89.2	90.2	69.5
1000	98.1	99.1	98.4	99.0	94.9	95.0	95.8	95.4	96.4	99.1	100.6	100.1	97.3	96.2	90.9	85.5	86.3	87.4	66.6
1250	95.4	96.4	95.6	96.2	92.1	91.9	92.7	92.2	93.3	96.0	97.5	97.1	94.6	93.3	87.8	82.4	83.4	84.5	63.6
1500	92.5	93.5	92.6	93.3	89.1	88.5	89.3	88.8	89.9	92.6	94.1	93.8	91.2	89.3	84.3	79.2	80.3	81.5	60.6
2000	89.5	91.5	89.5	91.2	85.9	84.9	85.6	85.0	86.2	88.8	90.4	90.2	87.4	85.4	80.6	75.8	77.1	78.4	57.3
2500	85.7	86.6	86.1	86.4	82.4	80.9	82.0	81.9	82.3	84.5	86.1	86.4	82.9	82.5	78.4	72.0	73.4	74.5	53.2
3150	81.5	82.4	82.1	82.1	78.4	76.6	77.9	76.5	78.1	79.5	81.1	82.5	78.7	78.3	72.1	67.9	69.5	70.7	48.8
4000	76.7	77.8	77.7	77.6	73.9	71.7	73.4	71.9	73.5	73.9	76.3	78.1	74.1	73.8	67.3	63.5	65.8	66.3	43.7
5000	71.9	73.0	73.3	72.8	69.2	66.8	68.6	67.0	68.9	68.9	71.3	73.3	69.2	69.0	62.2	58.7	60.0	61.5	37.9
6300	66.9	68.0	68.0	67.8	64.1	61.5	63.5	61.7	63.8	63.6	65.8	68.4	64.1	63.9	56.9	53.5	54.7	56.4	31.3
8000	63.0	64.2	64.1	63.9	60.1	57.2	59.2	57.4	59.3	59.3	61.3	64.3	60.3	59.5	52.1	48.6	50.3	51.9	23.5
10000	58.8	59.9	59.9	59.7	55.7	52.6	54.6	52.4	54.4	54.6	56.5	59.4	55.1	54.5	46.5	42.4	45.1	46.7	14.7
12500	54.2	55.3	55.3	55.1	51.0	47.1	49.5	46.9	49.0	49.7	51.5	54.3	49.9	49.5	40.3	35.8	39.0	40.7	5.9
16000	49.6	50.2	50.2	50.0	45.6	41.0	43.4	40.5	42.8	43.4	45.2	48.4	43.5	43.5	33.5	27.7	32.2	34.0	
20000	42.9	44.2	44.2	44.2	39.2	33.9	36.2	33.4	35.6	35.9	38.9	41.4	36.7	36.8	22.2	17.7	22.9	25.5	
25000	35.8	37.0	37.0	37.2	30.8	23.8	27.0	22.5	26.6	32.1	34.0	33.1	27.4	26.8	6.9	7.7	8.6	14.3	

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
G-7A AIRCRAFT																			
ENG. R-2000-7M2																			
GROUND RUNUP																			
OPERATIONS:																			
MAX TAKEOFF, C-7A																			
SINGLE ENGINE, 2075 RPM																			
GROUND RUNUP																			
METEOROLOGY:																			
TEMP = 59 F																			
BAK PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
IDENTIFICATIONS:																			
OMEGA 8.2																			
TEST 74-072-001																			
AIRCRAFT CODE 072																			
OPERATION CODE 00231																			
PROFILE VERSION A																			
18 MAY 76																			
PAGE E4																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	115.7	117.2	116.7	117.3	112.6	113.3	113.2	113.6	115.1	118.5	119.7	118.9	115.6	114.4	109.4	103.0	104.9	105.6	85.2
250	113.5	115.0	114.5	115.1	110.4	111.1	110.9	111.3	112.9	116.3	117.5	116.7	113.4	112.2	107.2	101.7	102.7	103.4	82.9
315	111.3	112.9	112.4	112.9	108.2	108.8	108.7	109.1	110.6	114.2	115.4	114.4	111.1	109.9	104.9	98.5	100.4	101.1	80.6
400	109.1	110.7	110.1	110.7	106.0	106.4	106.3	106.7	108.3	111.9	113.1	112.1	108.9	107.6	102.6	96.1	98.2	98.8	78.2
500	106.8	108.3	107.7	108.3	103.7	103.9	103.9	104.3	105.8	109.6	110.8	109.7	106.5	105.2	100.1	93.7	95.8	96.3	75.7
630	104.5	105.8	105.1	105.9	101.2	101.3	101.3	101.7	103.3	107.0	108.3	107.1	104.0	102.6	97.6	91.1	93.2	93.7	73.1
800	102.1	103.2	102.6	103.4	98.7	98.6	98.7	99.0	100.6	104.3	105.6	104.5	101.4	99.9	94.9	88.3	90.4	91.0	70.3
1000	99.5	100.7	99.9	100.8	96.1	95.6	95.8	96.2	97.7	101.4	102.7	101.6	98.6	97.1	92.0	85.5	87.5	88.1	67.4
1250	96.8	98.0	97.2	98.1	93.3	92.5	92.7	93.0	94.7	98.3	99.6	98.7	96.1	94.3	88.9	82.4	84.5	85.3	64.3
1600	93.9	95.1	94.2	95.1	90.2	89.0	89.3	89.6	91.2	94.9	96.2	95.4	92.8	90.3	85.4	79.2	81.5	82.3	61.4
2000	90.9	92.0	91.1	92.1	87.1	85.5	85.6	85.8	87.6	91.1	92.5	91.7	88.9	87.3	81.6	75.4	78.3	79.2	58.1
2500	87.1	88.2	87.7	88.2	83.6	81.5	82.0	81.7	83.7	86.8	88.2	87.9	84.4	83.4	77.5	72.0	74.5	75.3	54.0
3150	82.9	83.9	83.7	83.9	79.8	77.2	77.3	77.3	79.5	81.8	83.2	84.0	80.2	79.2	73.1	67.9	70.7	71.5	49.5
4000	77.8	79.0	79.0	79.1	74.9	72.2	72.4	72.5	74.6	75.8	78.0	79.3	75.4	74.6	68.1	63.5	65.9	67.0	44.4
5000	72.8	73.9	73.9	73.9	69.9	67.1	68.6	67.5	69.7	70.2	72.5	74.3	70.1	69.5	62.8	58.7	60.7	62.0	38.3
6300	67.5	68.7	68.6	68.5	64.5	61.7	63.5	62.0	64.3	64.5	66.7	69.0	64.7	64.3	57.3	53.5	55.2	56.8	31.6
8000	63.3	64.5	64.5	64.3	60.3	57.4	59.2	57.5	59.6	59.8	61.8	64.3	60.1	59.7	52.4	48.6	50.5	52.1	23.7
10000	58.6	59.9	59.9	59.7	55.7	52.6	54.6	52.4	54.4	54.6	56.5	59.4	55.1	54.6	46.5	42.4	45.1	46.7	14.7
12500	54.2	55.3	55.3	55.1	51.0	47.1	49.5	46.9	49.0	49.7	51.5	54.3	49.9	49.5	40.3	35.8	39.0	40.7	5.9
16000	49.0	50.2	50.2	50.0	45.6	41.0	43.4	40.5	42.8	44.4	46.2	48.4	43.5	43.5	33.5	27.7	32.2	34.0	
20000	42.9	44.2	44.2	44.2	39.2	33.9	36.2	33.4	35.6	38.9	40.5	41.4	36.7	36.8	22.2	17.7	22.9	25.5	
25000	35.8	37.0	37.0	37.2	30.8	23.8	27.0	22.5	26.6	32.1	34.0	33.1	27.4	26.8	8.9	7.7	8.6	14.3	
* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT: C-7A AIRCRAFT																				
ENG. R-2000-7M2																				
GROUND RUNUP																				
OPERATION: MAX TAKEOFF, C-7A																				
SINGLE ENGINE, 2675 RPM																				
GROUND RUNUP																				
METEOROLOGY: 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -3.0 DB																				
IDENTIFICATION: OMEGA 8-2																				
TEST 74-072-001																				
AIRCRAFT CODE 072																				
OPERATION CODE 00231																				
PROFILE VERSION A																				
18 MAY 76																				
PAGE F4																				
DISTANCE (FEET)																				
ANGLE (DEGREES)																				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																				
200	101.6	102.6	101.9	101.9	101.9	98.1	97.7	99.0	98.0	98.4	100.1	101.9	103.2	99.2	99.3	93.4	89.4	99.2	92.0	72.0
250	99.6	100.5	99.8	99.8	99.8	96.0	95.6	96.9	95.8	97.3	98.0	99.8	101.3	97.1	97.2	91.2	87.3	88.1	89.9	69.9
315	97.5	98.4	97.7	97.7	97.7	93.8	93.4	94.7	93.6	95.1	95.8	97.6	98.8	94.9	95.0	89.0	85.1	86.0	87.7	67.7
400	95.4	96.3	95.6	95.6	95.6	91.7	91.1	92.4	91.3	92.4	93.6	95.4	96.6	92.7	92.8	86.7	82.9	83.8	85.5	65.5
500	93.2	94.1	93.4	93.4	93.4	89.5	88.8	90.2	89.0	90.2	91.3	93.1	94.3	90.4	90.5	84.4	80.7	81.6	83.3	63.3
630	91.0	91.9	91.1	91.1	91.1	87.2	86.4	87.8	86.6	88.2	88.9	90.7	92.3	88.0	88.2	82.0	78.4	79.3	81.0	61.0
800	88.8	89.6	88.8	88.9	88.9	84.9	84.0	85.4	84.1	85.8	86.3	88.2	89.6	85.6	85.8	79.6	76.0	77.0	78.7	58.7
1000	86.5	87.2	86.5	86.5	86.5	82.6	81.4	82.9	81.5	83.2	83.7	85.6	87.1	83.0	83.4	77.0	73.8	74.6	76.3	56.3
1250	84.1	84.8	84.0	84.0	84.0	80.1	78.8	80.4	78.8	80.6	80.9	82.8	84.5	80.4	80.8	74.3	71.1	72.1	73.8	53.8
1600	81.5	82.2	81.4	81.5	81.5	77.6	76.0	77.7	76.0	77.8	78.0	79.9	81.9	77.6	78.2	71.5	68.5	69.5	71.3	51.3
2000	78.9	79.6	78.8	78.9	78.9	75.0	73.1	74.9	73.1	74.9	74.9	76.9	79.1	74.0	75.4	68.6	65.7	66.8	68.6	48.5
2500	75.9	76.6	75.8	75.8	75.8	72.1	69.9	72.0	70.0	71.9	71.6	73.7	76.1	71.7	72.4	65.5	62.8	63.8	65.7	44.7
3150	72.5	73.2	72.5	72.4	72.4	68.8	66.4	68.6	66.7	68.6	68.1	70.2	72.9	68.4	69.1	62.1	59.5	60.6	62.5	42.5
4000	68.8	69.5	68.8	68.5	68.5	65.2	62.6	65.2	63.0	64.9	64.3	66.5	69.4	64.8	65.5	58.4	56.0	57.1	58.9	38.9
5000	64.5	65.3	64.6	64.2	64.2	61.0	58.4	61.2	59.0	60.9	60.2	62.4	65.3	60.7	61.5	54.4	52.0	53.0	54.9	34.9
6300	60.1	60.9	60.2	59.7	59.7	56.7	54.0	56.9	54.8	56.5	55.8	58.0	61.1	56.4	57.1	50.0	47.7	48.7	50.6	30.6
8000	56.4	57.2	56.6	56.1	56.1	53.0	49.9	52.9	50.5	52.4	51.7	53.7	57.1	52.4	53.1	45.9	43.6	44.8	46.6	26.6
10000	52.5	53.2	52.6	52.3	52.3	49.0	45.7	48.5	46.0	48.0	47.4	49.3	52.7	48.1	48.7	41.4	39.1	40.6	42.4	22.4
12500	48.1	48.9	48.3	48.1	48.1	44.6	41.1	43.8	41.3	43.2	42.9	44.6	47.9	43.4	43.9	36.6	34.2	36.0	37.7	17.7
16000	43.3	44.1	43.5	43.5	43.5	39.9	36.2	38.0	36.2	38.3	36.3	39.7	42.6	38.5	38.7	31.4	28.8	30.9	32.5	12.5
20000	38.1	38.9	38.4	38.5	38.5	34.6	31.1	33.0	30.8	32.6	31.8	35.0	37.9	33.3	33.2	26.2	23.1	25.4	26.8	8.8
25000	32.4	33.2	32.7	32.9	32.9	28.9	25.7	27.0	25.4	27.3	26.5	30.6	31.2	28.2	27.5	21.2	17.1	19.6	20.6	.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-7A AIRCRAFT																			
ENG. R-2803-7H2																			
GROUND RUNUP																			
(OPERATION:																			
(MAX TAKEOFF, C-7A																			
(SINGLE ENGINE, 2675 RPM																			
(GROUND RUNUP																			
(
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.8 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-072-001																			
AIRCRAFT CODE 072																			
OPERATION CODE 00231																			
PROFILE VERSION A																			
18 MAY 76																			
PAGE 64																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	103.1	104.1	103.5	103.0	99.2	98.3	99.0	98.0	100.0	102.0	104.0	104.7	100.7	100.3	94.4	89.4	91.4	92.0	72.8
250	101.0	102.0	101.4	101.7	97.1	96.2	96.9	96.6	98.7	100.3	101.9	102.5	98.6	98.2	92.3	87.3	89.3	90.6	70.6
315	98.9	100.0	99.3	99.6	95.0	94.0	94.7	94.4	96.5	98.1	99.7	100.4	96.4	96.0	90.1	85.1	87.1	88.5	68.5
400	96.8	97.8	97.1	97.4	92.8	91.7	92.4	92.1	94.3	95.9	97.5	98.1	94.2	93.6	87.0	82.9	85.0	86.3	66.3
500	94.6	95.7	94.9	95.2	90.6	89.4	90.2	89.8	92.0	93.6	95.2	95.9	91.9	91.5	85.5	80.7	82.8	84.1	64.1
630	92.4	93.4	92.7	93.0	88.4	87.0	87.8	87.4	89.6	91.2	92.8	93.5	89.5	89.2	83.1	78.4	80.5	81.8	61.8
800	93.2	91.1	90.4	90.7	86.1	84.6	85.4	84.9	87.1	88.6	90.3	91.1	87.1	86.8	80.6	76.0	78.2	79.5	59.5
1000	87.9	88.7	88.0	88.3	83.7	82.0	82.9	82.3	84.6	86.0	87.7	88.6	84.6	84.3	78.1	73.6	75.8	77.1	57.1
1250	85.5	86.3	85.6	85.9	81.3	79.4	80.4	79.6	82.0	83.2	84.9	86.1	81.9	81.8	75.4	71.1	73.2	74.6	54.5
1500	83.6	83.7	83.0	83.4	78.8	76.6	77.7	76.8	79.2	80.3	82.1	83.4	79.2	79.1	72.6	68.5	70.7	72.0	52.0
2000	80.4	81.1	80.4	80.8	76.2	73.7	74.9	73.9	76.3	77.2	79.0	80.6	76.3	76.4	69.7	65.7	68.0	69.4	49.4
2500	77.3	78.1	77.4	77.7	73.3	70.5	72.0	70.8	73.2	73.9	75.8	77.6	73.2	73.3	66.5	62.8	65.0	66.4	46.4
3150	73.9	74.7	74.1	74.2	70.0	67.0	68.8	67.5	69.9	70.4	72.3	74.5	69.9	70.1	63.2	59.5	61.8	63.3	43.3
4000	69.9	70.7	70.0	70.0	66.1	63.1	65.2	63.7	66.0	66.1	68.1	70.7	66.0	66.3	59.3	56.0	58.0	59.6	39.6
5000	65.4	66.2	65.6	65.3	61.7	58.4	61.2	59.4	61.7	61.6	63.6	66.4	61.6	62.1	55.0	52.0	53.7	55.4	35.4
6300	60.7	61.5	60.9	60.4	57.1	54.2	56.9	54.9	57.1	56.7	58.8	61.8	57.0	57.5	50.5	47.7	49.2	50.9	30.9
8000	56.7	57.5	56.9	56.5	53.2	50.1	52.9	50.6	52.7	52.2	54.2	57.4	52.7	53.3	46.1	43.6	45.1	46.8	26.8
10000	52.5	53.2	52.6	52.3	49.0	45.7	48.5	46.0	48.0	47.4	49.3	52.7	48.1	48.7	41.4	39.1	40.6	42.4	22.4
12500	48.1	48.9	48.3	48.1	44.6	41.1	43.8	41.3	43.2	42.9	44.6	47.9	43.4	43.9	36.6	34.2	36.0	37.7	17.7
16000	43.3	44.1	43.5	43.5	39.9	36.2	38.6	36.2	38.0	38.3	39.7	42.6	38.5	38.7	31.4	28.8	30.9	32.5	12.5
20000	38.1	38.9	38.4	38.5	34.6	31.1	33.0	31.6	32.6	33.8	35.0	37.3	33.3	33.2	26.2	23.1	25.4	26.8	6.8
25000	32.4	33.2	32.7	32.9	28.9	25.7	27.0	25.4	27.0	29.5	30.6	31.2	28.2	27.5	21.2	17.1	19.6	20.6	0.6
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

C-7A AIRCRAFT

ENG. R-2000-7H2

GROUND RUNUP

OPERATIONS:

MAX TAKEOFF, C-7A

SINGLE ENGINE, 2075 RPM

GROUND RUNUP

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATIONS:

OMEGA 6.2

TEST 74-072-001

RUN 04

AIRCRAFT CODE 072

OPERATION CODE 00231

PROFILE VERSION A

18 MAY 76

PAGE J4

	P=PNLT											T=ALT
	A=AL											
	20	30	40	50	60	70	80	90	100	110	120	
	NOISE LEVEL IN PNDB OR DBA											
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

NOISE PRODUCED ON THE GROUND BY

KC-97 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 081
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING

TAKEOFF 59 IN HG, 2700 RPM	58-66
APPROACH 35 IN HG, 2350 RPM	67-75
TAKEOFF-JETS 59 IN HG, 2700 RPM, 100% RPM	76-84
APPROACH-JETS 35 IN HG, 2350 RPM, 60% RPM	85-93

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT

ALTA-10-GROUND PROPAGATION

09 FEB 76

AEROSPACE MEDICAL RESEARCH
LABORATORY
BASE, OHIO

[illegible]

TABLE 6
SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATIONS:		METEOROLOGY:				OMEGA 6.6		
	TAKEOFF POWER	TEMP	= 59 F				A/C CODE: 081		
KC-97	59 IN HG	2700 RPM	REL HUMID = 70 %				OPS CODE: 103		
	AIRSPEED = 190 KNOTS	DELTA N = 0.0 DB					PROFILE VER: A		
							09 FEB 76		
							PAGE I1		
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNOB)	PNLT** (PNOB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)		
200	105.9	107.5	120.9	122.5	105.2	106.7	110.7		
250	103.7	105.4	118.7	120.4	104.1	105.6	109.5		
315	101.6	103.3	116.5	118.2	102.9	104.4	108.4		
400	99.4	101.1	114.3	116.0	101.7	103.3	107.2		
500	97.2	98.9	112.1	113.8	100.5	102.0	105.9		
630	95.0	96.6	109.8	111.5	99.3	100.8	104.6		
800	92.7	94.4	107.4	109.1	98.0	99.5	103.3		
1000	90.4	92.0	105.0	106.7	96.7	98.2	101.9		
1250	88.0	89.7	102.6	104.3	95.3	96.9	100.4		
1600	85.6	87.3	100.1	101.8	94.0	95.5	98.9		
2000	83.2	84.9	97.5	99.2	92.5	94.0	97.3		
2500	80.7	82.4	94.9	96.6	91.1	92.6	95.7		
3150	78.2	79.9	92.2	93.9	89.6	91.1	94.1		
4000	75.7	77.0	89.5	90.9	88.0	89.2	92.0		
5000	73.1	74.1	86.7	87.7	86.4	87.3	89.9		
6300	70.4	71.1	83.9	84.6	84.8	85.4	87.8		
8000	67.7	68.0	80.9	81.3	83.0	83.3	85.5		
10000	64.9	64.9	77.7	77.7	81.2	81.2	83.0		
12500	62.0	62.0	74.3	74.3	79.3	79.3	80.6		
16000	59.0	59.0	70.8	70.8	77.3	77.3	78.1		
20000	55.8	55.8	67.0	67.0	75.2	75.2	75.3		
25000	52.5	52.5	63.0	63.0	72.8	72.8	72.4		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF REGRDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	---	KC-97	TAKEOFF POWER	---	A+	---	*P	---
250	(	.	59 IN HG	2700 RPM	.	A+	.	*P)
315	(	.	AIR SPEED = 190 KNOTS		.	A+	.	*P)
400	(	.	TEMP = 59 F	REL HUMID = 70 %	.	A+	.	*P)
500	(	.	DELTA N = 0.0 DB		.	A+	.	*P)
630	(	.	NO. OF RECORDS: 8		.	A+	.	*P)
800	(	.	IDENT: 6.6-081-103-090276-A		.	A+	.	*P)
1000	(	.	.	.	.	A+	.	*P)
1250	(	.	.	.	.	A+	.	*P)
1600	(	.	.	.	.	A+	.	*P)
2000	(	.	.	.	.	A+	.	*P)
2500	(	.	.	.	.	A+	.	*P)
3150	(	.	.	.	.	A+	.	*P)
4000	(	.	.	.	.	A+	.	*P)
5000	(	.	.	.	.	A+	.	*P)
6300	(	.	.	.	.	A+	.	*P)
8000	(	.	.	.	.	A+	.	*P)
10000	(	.	.	.	.	A+	.	*P)
12500	(	.	.	.	.	A+	.	*P)
16000	(	.	.	.	.	A+	.	*P)
20000	(	.	.	.	.	A+	.	*P)
25000	(	.	.	.	.	A+	.	*P)

200	(	KC-97	TAKEOFF POWER		S-T-E
250	(	59 IN HG	2700 RPM	.	. ST E.
315	(	AIRSPEED = 190 KNOTS		.	. ST E.
400	(	TEMP = 59 F REL HUMID = 70 %		.	. ST E.
500	(	DELTA N = 0.0 DB		.	. ST E.
	(	NO. OF RECORDS: 8		.	. ST E.
	(	IDENT: 6.6-081-103-090276-A		.	. ST E.
S 630	(	.	.	.	. S.T E.
L A 800	(	.	.	.	. ST E.
N T 1000	(	.	.	.	. ST E.
D 1250	(	.	.	.	. ST E.
I S 1600	(	.	.	.	. ST E.
T A 2000	(	.	.	.	. ST E.
N G 2500	(	.	.	.	. ST E.
E I 3150	(	.	.	.	. ST E.
N 4000	(	.	.	.	. ST E.
F 5000	(	.	.	.	. ST E.
E E 6300	(	.	.	X E.	.
T 8000	(	.	.	X E.	.
10000	(	.	.	X.E.	.
12500	(	.	.	X.E	AIR TO GROUND E = EPNL T = SELT S = SEL
16000	(	.	.	XE .	.
20000	(	.	.	X.	.
25000	(	.	.	.	.

NOISE LEVEL IN DB
 EX-----
 30 40 50 60 70 80 90 100 110

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									
GROUND-TO-GROUND PROPAGATION																									
AIRCRAFT:																									
KC-97																									
OPERATIONS:																									
TAKEOFF POWER																									
59 IN HG 2700 RPM																									
METEOROLOGY:																									
TEMP																									
REL HUMID = 70 %																									
= 59 F																									
AIRSPEED = 190 KNOTS																									
DELTA N = 0.0 DB																									
PAGE 11																									
OMEGA 6.6																									
A/C CODE: 001																									
OPS CODE: 103																									
PROFILE VER: A																									
09 FEB 76																									
IDENTIFICATIONS:																									
SLANT DISTANCE (FEET)																									
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	85	87	86	92	108	103	89	97	94	94	92	91	89	88	87	88	88	88	88	88	83	80	79	81	
250	83	85	84	90	106	101	87	95	91	92	90	89	86	86	85	85	86	86	86	86	80	77	76	78	
315	81	83	82	88	104	99	85	93	89	90	88	87	84	84	83	83	84	84	84	83	77	74	73	74	
400	79	81	80	86	102	96	82	91	87	88	86	85	82	81	81	81	82	82	81	80	75	71	69	70	
500	77	79	78	84	99	94	80	89	85	86	84	83	80	79	78	79	79	79	79	77	72	68	65	65	
630	75	77	76	82	97	91	77	86	83	84	82	80	78	77	76	76	77	77	76	74	69	64	61	60	
800	73	75	74	80	94	89	75	83	81	81	80	78	76	75	74	74	75	74	73	71	65	60	56	53	
1000	71	73	72	77	91	86	72	80	79	79	78	76	74	73	71	72	72	71	70	68	61	55	50	46	
1250	69	71	69	74	88	82	68	77	76	77	75	74	71	70	69	69	69	68	67	61	57	50	43	36	
1600	67	67	66	70	85	79	65	74	73	73	72	71	69	68	66	66	66	65	63	59	52	44	35	25	
2000	64	64	62	67	81	75	61	70	69	72	71	69	66	65	64	63	63	61	59	54	46	37	25	12	
2500	60	60	58	62	76	71	57	65	65	69	68	67	64	62	61	60	59	57	54	48	39	28	14		
3150	56	56	53	57	72	66	52	60	61	65	65	64	61	59	57	56	55	52	48	41	32	17			
4000	52	50	48	52	66	60	46	54	56	60	61	61	58	56	54	52	51	47	42	33	22	5			
5000	47	46	43	47	61	55	41	49	50	55	57	56	54	53	50	48	46	41	34	23	11				
6000	42	41	39	42	56	51	36	45	44	49	53	52	50	49	45	43	40	34	25	11					
8000	39	39	36	40	54	48	34	42	41	46	49	49	46	44	40	37	33	25	14						
10000	37	37	34	38	52	46	31	39	38	43	46	45	42	39	35	30	24	15	0						
12500	35	35	32	36	49	43	28	36	35	40	42	40	37	33	27	22	14	2							
16000	33	32	30	33	47	40	25	33	31	36	38	35	31	26	20	12									
20000	31	30	27	31	44	37	22	30	28	31	33	29	24	18	10										
25000	28	27	25	28	41	34	19	26	23	26	27	23	16	9											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 0
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPL** (EPNDE)				
(OPERATION:) METEOROLOGY:											
(TAKEOFF POWER) TEMP											
(59 IN HG 2700 RPM) REL HUMID = 70 %											
()											
(AIRSPEED = 190 KNOTS) DELTA N = 0.0 DB											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											

	KC-97	TAKEOFF POWER	S-T-E
200	(.)	(.)	(.)
250	(.)	(.)	(.)
315	(.)	(.)	(.)
400	(.)	(.)	(.)
500	(.)	(.)	(.)
630	(.)	(.)	(.)
800	(.)	(.)	(.)
1000	(.)	(.)	(.)
1250	(.)	(.)	(.)
1600	(.)	(.)	(.)
2000	(.)	(.)	(.)
2500	(.)	(.)	(.)
3150	(.)	(.)	(.)
4000	(.)	(.)	(.)
5000	(.)	(.)	(.)
6300	(.)	(.)	(.)
8000	(.)	(.)	(.)
10000	(.)	(.)	(.)
12500	(.)	(.)	(.)
16000	(.)	(.)	(.)
20000	(.)	(.)	(.)
25000	(.)	(.)	(.)

03

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*) IDENTIFICATION:

[illegible]

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:	(OPERATION:	METEOROLOGY:								A/C CODE: 081	
KC-97	(APPROACH POWER	TEMP		= 59 F						OPS CODE: 105	
	(35 IN HG 2350 RPM	REL HUMID		= 70 %						PROFILE VER: A	
	(09 FEB 76	
	(AIRSPEED = 125 KNOTS	DELTA N = 0.0 DB								PAGE 12	
	(
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	100.4	101.2	115.1	116.0	101.5	102.9	107.3				
250	98.2	99.1	112.9	113.8	100.4	101.8	106.1				
315	96.0	96.9	110.6	111.5	99.2	100.0	104.8				
400	93.8	94.7	108.3	109.1	97.9	99.4	103.4				
500	91.5	92.4	105.8	106.7	96.7	98.1	102.0				
630	89.2	90.1	103.3	104.2	95.3	96.8	100.5				
800	86.8	87.7	100.8	101.6	93.9	95.4	98.9				
1000	84.4	85.2	98.3	99.1	92.5	93.9	97.4				
1250	81.9	82.7	95.7	96.6	91.0	92.5	95.9				
1600	79.3	80.2	93.1	94.0	89.5	90.9	94.3				
2000	76.7	77.6	90.5	91.3	87.9	89.3	92.6				
2500	74.1	74.9	87.7	88.6	86.2	87.6	90.9				
3150	71.3	72.2	84.9	85.7	84.5	85.9	89.0				
4000	68.6	69.3	81.8	82.5	82.7	83.9	86.7				
5000	65.8	66.3	78.7	79.2	80.9	81.8	84.3				
6300	62.9	63.3	75.5	75.8	79.1	79.6	81.8				
8000	60.0	60.2	72.2	72.4	77.1	77.4	79.2				
10000	57.0	57.0	68.7	68.7	75.1	75.1	76.5				
12500	53.9	53.9	65.2	65.2	73.0	73.0	73.9				
16000	50.7	50.7	61.5	61.5	70.8	70.8	71.2				
20000	47.3	47.3	57.5	57.5	68.5	68.5	68.2				
25000	43.9	43.9	53.3	53.3	66.0	66.0	65.0				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	APPROACH POWER										NOISE LEVEL IN DB									
	KC-97																			
	35 IN HG 2350 RPM																			
	AIRSPEED = 125 KNOTS																			
	TEMP = 59 F REL HUMID = 70 %																			
	DELTA N = 0.0 DB																			
	NO. OF RECORDS: 8																			
	IDENT: 6.6-081-105-090276-A																			
200	((((((((((((((((((((
250	((((((((((((((((((((
315	((((((((((((((((((((
400	((((((((((((((((((((
500	((((((((((((((((((((
S 630	((((((((((((((((((((
L 800	((((((((((((((((((((
A 1000	((((((((((((((((((((
T 1250	((((((((((((((((((((
O 1600	((((((((((((((((((((
I 2000	((((((((((((((((((((
S 2500	((((((((((((((((((((
T 3150	((((((((((((((((((((
A 4000	((((((((((((((((((((
N 5000	((((((((((((((((((((
C 6300	((((((((((((((((((((
E 8000	((((((((((((((((((((
I 10000	((((((((((((((((((((
N 12500	((((((((((((((((((((
F 16000	((((((((((((((((((((
E 20000	((((((((((((((((((((
T 25000	((((((((((((((((((((

	APPROACH POWER										ST-E									
	KC-97 35 IN HG 2350 RPM																			
	AIRSPEED = 125 KNOTS																			
	TEMP = 59 F REL HUMID = 70 %																			
	DELTA N = 0.0 DB																			
	NO. OF RECORDS: 8																			
	IDENT: 6.6-081-105-090276-A																			
200	(.	(.
250	(.	(.
315	(.	(.
400	(.	(.
500	(.	(.
S 630	(.	(.
L 800	(.	(.
N 1000	(.	(.
D 1250	(.	(.
I 1600	(.	(.
S 2000	(.	(.
A 2500	(.	(.
N 3150	(.	(.
C 4000	(.	(.
E 5000	(.	(.
E 6300	(.	(.
T 8000	(.	(.
10000	(.	(.
12500	(.	(.
16000	(.	(.
20000	(.	(.
25000	(.	(.

EX-70 80 90 110

NOISE LEVEL IN DB

AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																		IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																		OMEGA 6.6	
AIRCRAFT:																		A/C CODE: 981	
(																		OPS CODE: 105	
(																		PROFILE VER: A	
(																		09 FEB 76	
(																		PAGE L2	
KC-97																			
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(
(

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	35 IN HG	2350 RPM	REL HUMID	DELTA N	0.0 DB	DELTA N	0.0 DB
KC-97									
SLANT DISTANCE (FEET)	AL (DB)	ALT** (DB)	PNL (PNDB)	PNL** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
200	95.4	95.2	110.1	110.9	96.5	97.9	102.2	OMEGA 6.6	
250	93.2	94.0	107.9	108.7	95.4	96.7	101.0	A/C CODE: 081	
315	91.0	91.6	105.6	106.4	94.2	95.6	99.7	OPS CODE: 105	
400	88.8	89.6	103.2	104.0	92.9	94.3	98.3	PROFILE VER: A	
500	86.5	87.3	100.7	101.6	91.6	93.0	96.9	09 FEB 76	
630	84.1	84.9	98.2	99.0	90.2	91.6	95.3	PAGE M?	
800	81.6	82.5	95.5	96.3	88.8	90.2	93.6		
1000	79.1	79.9	92.6	93.4	87.2	88.6	91.7		
1250	76.4	77.3	89.5	90.3	85.6	87.0	89.6		
1600	73.7	74.5	86.1	86.9	83.8	85.2	87.2		
2000	70.8	71.6	82.4	83.3	81.9	83.3	84.6		
2500	67.7	68.5	78.6	79.3	79.8	81.2	81.6		
3150	64.2	65.0	74.3	75.2	77.3	78.7	78.5		
4000	60.3	61.0	69.7	70.4	74.5	75.6	74.6		
5000	56.0	56.5	64.7	65.2	71.2	72.0	70.3		
6300	51.5	51.9	59.4	59.8	67.7	68.2	65.7		
8000	47.6	47.8	55.2	55.3	64.8	65.0	62.2		
10000	43.5	43.5	50.4	50.4	61.6	61.6	58.2		
12500	39.1	39.1	45.0	45.0	58.2	58.2	53.8		
16000	34.3	34.3	38.9	38.9	54.5	54.5	48.6		
20000	29.3	29.3	31.2	31.2	50.4	50.4	41.9		
25000	23.9	23.9	21.9	21.9	46.0	46.0	33.7		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

APPROACH POWER									
KC-97 35 IN HG 2350 RPM									
AIRSPEED = 125 KNOTS									
TEMP = 59 F REL HUMID = 70 %									
DELTA N = 0.0 DB									
NO. OF RECORDS: 8									
IDENT: 6.6-061-105-090276-A									
	30	40	50	60	70	80	90	100	110
NOISE LEVEL IN DB									
200	(((((((((
250	(((((((((
315	(((((((((
400	(((((((((
500	(((((((((
630	(((((((((
800	(((((((((
1000	(((((((((
1250	(((((((((
1600	(((((((((
2000	(((((((((
2500	(((((((((
3150	(((((((((
4000	(((((((((
5000	(((((((((
6300	(((((((((
8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((

FREQUENCY	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB											MEAN	SD
	30	40	50	60	70	80	90	100					
50	82.8	6.7
63	83.3	5.8
80	79.6	7.5
100	88.2	4.1
125	94.6	3.2
160	93.2	3.9
200	89.4	6.5
250	90.2	2.4
315	91.5	3.3
400	92.4	3.2
500	91.3	2.5
630	91.5	2.1
800	90.8	1.8
1000	90.3	2.1
1250	89.4	1.9
1600	89.1	1.5
2000	87.9	1.6
2500	85.2	1.7
3150	83.4	2.2
4000	80.8	2.0
5000	74.7	2.6
6300	67.8	2.8
8000	61.6	3.5
10000	56.0	4.5

KC-97 TAKEOFF POWER-JETS 59 IN HG 2700 RPM 100 % RPM

AIRSPEED = 233 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

PNLT = 111.9 PND8
PNL = 111.3 PND8
ALT = 100.0 DBA
AL = 99.4 DBA

NO. OF RECORDS = 8 IDENT: 6.6-081-108-090276

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																																		IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																																		OMEGA 6.6	
AIRCRAFT:																																		A/C CODE: 081	
KC-97																																		OPS CODE: 108	
																																		PROFILE VER: A	
																																		09 FEB 76	
																																		PAGE H3	
METEOROLOGY:																																		TEMP = 59 F	
																																		HUMID = 70 %	
																																		DELTA N = 0.0 DB	
FREQUENCY BAND NUMBER																																			
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40											
200	97	97	94	102	109	107	104	105	106	107	106	106	106	106	105	105	105	103	102	101	97	93	92	94											
250	95	95	92	100	107	105	102	103	104	105	104	104	104	104	104	103	103	102	101	100	99	94	90	85	93										
315	93	93	90	98	105	103	100	100	102	103	102	102	102	102	101	101	101	100	98	97	97	91	87	85	86										
400	91	91	88	96	103	101	98	98	100	101	100	100	100	100	99	99	99	98	96	95	94	89	84	82	82										
500	89	89	86	94	101	99	96	96	98	99	98	98	97	97	96	96	96	93	92	91	86	81	77	77											
630	87	87	84	92	99	97	94	94	96	97	96	96	95	95	94	94	93	91	90	88	82	77	73	71											
800	85	85	82	90	97	95	91	92	94	95	93	94	93	93	92	92	91	88	87	85	79	73	68	64											
1000	83	83	80	88	95	93	89	91	92	92	91	92	91	90	89	89	88	85	83	81	75	68	62	56											
1250	81	81	78	86	93	91	87	88	89	90	89	89	88	87	87	86	85	82	80	77	70	62	54	46											
1600	79	79	76	84	91	89	85	86	87	88	87	87	86	85	84	84	82	79	76	72	65	56	46	35											
2000	77	77	74	82	88	87	83	84	85	86	84	85	84	83	81	81	79	75	72	67	59	48	35	20											
2500	75	75	71	80	86	85	81	82	83	83	82	82	81	80	78	77	75	71	66	60	52	39	23	3											
3150	73	73	69	78	84	83	79	79	80	81	80	79	78	77	75	73	71	66	61	53	43	28	8												
4000	71	71	67	76	82	80	76	77	78	78	77	77	75	74	71	69	66	60	54	44	33	14													
5000	68	69	65	74	80	78	74	75	76	76	74	74	72	70	67	65	61	54	46	33	21	6													
6300	66	67	63	71	78	76	72	72	73	73	71	70	68	66	63	59	54	46	36	21	5														
8000	64	65	61	69	75	73	69	69	70	70	68	67	64	61	57	53	47	37	24	5															
10000	62	62	58	67	73	71	67	67	67	67	64	62	59	56	51	46	38	26	10																
12500	60	60	56	64	70	68	64	64	64	63	60	58	54	50	44	37	27	12																	
16000	58	58	54	62	68	65	61	60	60	59	55	53	48	42	35	26	14																		
20000	55	55	51	59	65	62	57	57	56	54	50	46	41	34	25	14																			
25000	53	53	49	56	62	59	54	53	52	49	44	39	32	24	13																				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONF CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PML (PNDB)	PMLT** (PNDB)	SEL (DB)	SELT** (DB)	EPML** (EPMD9)	IDENTIFICATION:	
KC-97	115.3	116.8	126.3	129.3	113.8	116.1	119.1	OMEGA	6.6
	113.2	113.8	126.1	126.7	113.8	114.9	117.9	A/C CODE: 881	
	111.8	111.6	123.0	124.4	112.6	113.7	116.6	OPS CODE: 198	
	108.8	109.4	121.4	122.1	111.4	112.5	115.2	PROFILE VER: A	
	106.5	107.2	119.0	119.6	110.1	111.3	113.8	84 FEB 76	
	104.2	104.8	116.5	117.2	108.0	109.9	112.3	PAGE 13	
	101.8	102.5	114.6	114.6	107.5	108.6	110.8		
	99.4	100.0	111.3	111.9	105.8	107.1	109.1		
	96.9	97.5	108.5	109.1	104.5	105.6	107.3		
	94.3	94.9	105.5	106.2	102.9	104.0	105.4		
	91.6	92.2	102.4	103.1	101.2	102.3	103.3		
	88.8	89.4	99.4	100.0	99.4	100.5	101.2		
	85.9	86.5	96.4	97.0	97.5	98.6	99.2		
	82.8	83.4	93.3	93.8	95.5	96.4	96.9		
	79.7	80.1	90.0	90.4	93.3	94.3	94.4		
	76.4	76.6	86.6	86.9	91.8	91.4	91.8		
	72.9	73.0	83.0	83.2	84.5	84.8	84.9		
	69.3	69.3	79.3	79.3	85.9	85.9	86.0		
	65.5	65.5	75.2	75.2	83.1	83.1	82.9		
	61.5	61.5	71.1	71.1	80.2	80.2	79.8		
	57.4	57.4	66.9	66.9	77.1	77.1	76.6		
	53.1	53.1	62.5	62.5	73.8	73.8	73.2		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	TAKEOFF POWER-JETS	METEOROLOGY:	TEMP	REL HUMID	DELTA N	DELTA E	DELTA H	IDENTIFICATION:
KC-97	(	59 IN HG	2700 RPM	59 F	70 %	0.0 DB			OMEGA 6-6
	(	100 X RPM							A/C CODE: 081
	(	AIR SPEED = 230 KNOTS							OPS CODE: 108
	(								PROFILE VER: A
	(								09 FEB 76
	(								PAGE M3
SLANT DISTANCE (FEET)	AL (DB)	ALT** (DB)	PNL (PNDB)	PNLY** (PNDB)	SEL (DB)	SELY** (DB)	EPNL** (EPNDB)		
200	110.3	110.9	123.3	123.9	110.0	111.0	114.1		
250	109.2	108.8	121.1	121.7	108.8	109.9	112.8		
315	106.0	106.6	118.8	119.4	107.6	108.7	111.5		
400	103.8	104.4	116.4	117.0	106.4	107.5	110.1		
500	101.5	102.1	113.9	114.5	105.1	106.2	108.7		
630	99.2	99.8	111.4	112.0	103.8	104.9	107.2		
800	96.8	97.4	108.7	109.3	102.4	103.5	105.5		
1000	94.3	94.9	105.9	106.6	100.9	102.0	103.7		
1250	91.7	92.3	102.9	103.6	99.4	100.4	101.7		
1600	89.0	89.6	99.7	100.3	97.7	98.7	99.5		
2000	86.2	86.8	96.2	96.8	95.9	96.9	97.0		
2500	83.2	83.8	92.5	93.1	93.0	94.9	94.2		
3150	79.8	80.4	88.3	88.9	91.5	92.5	91.1		
4000	76.1	76.6	83.9	84.4	88.8	89.6	87.5		
5000	72.0	72.3	79.1	79.4	85.6	86.2	83.4		
6300	67.4	67.7	73.9	74.2	82.1	82.5	79.0		
8000	63.2	63.2	69.5	69.7	78.8	79.8	75.5		
10000	58.6	58.6	64.8	64.8	75.2	75.2	71.5		
12500	53.6	53.6	59.7	59.7	71.2	71.2	67.4		
16000	48.1	48.1	54.3	54.3	66.8	66.8	63.0		
20000	42.2	42.2	48.1	48.1	61.8	61.8	57.8		
25000	35.8	35.8	40.5	40.5	56.4	56.4	51.2		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

KC-97 TAKEOFF POWER-JETS												ST-E			
59 IN HG 2700 RPM 100 % RPM															
AIRSPEED = 230 KNOTS															
TEMP = 59 F REL HUMID = 70 %															
DELTA N = 0.0 DB															
NO. OF RECORDS: 8															
IDENT: 6.6-381-108-090276-A															
S 630	ST E	.	.	.
L 800	ST E	.	.	.
A 1000	ST E	.	.	.
D 1250	ST E	.	.	.
I 1600	SX.	.	.	.
T 2000	SX.	.	.	.
N 2500	XT	.	.	.
G 3150	XT	.	.	.
E 4000	E ST	.	.	.
F 5000	E. X	.	.	.
E 6300	E. ST	.	.	.
E 8000	E X.	.	.	.
10000	E. X.	.	.	.
12500	E. X	.	.	.
16000	E X	.	.	.
20000	E X	.	.	.
25000	E. X	.	.	.
												GROUND TO GROUND			
												E = EPNL			
												T = SELT			
												S = SEL			

	20	30	40	50	60	70	80	90	MEAN	SD
F 50	(.	73.1	6.0
R 63	(.	78.5	3.0
E 80	(.	75.5	4.5
E 100	(.	86.0	4.1
E 125	(.	87.5	4.6
E 160	(.	85.1	3.6
E 200	(.	75.3	3.4
E 250	(.	77.4	2.1
E 315	(.	78.1	1.5
E 400	(.	78.4	3.3
E 500	(.	77.6	2.4
E 630	(.	75.7	2.1
E 800	(.	72.1	1.7
E 1000	(.	71.0	1.0
E 1250	(.	72.0	1.3
E 1600	(.	72.0	1.4
E 2000	(.	72.8	1.4
E 2500	(.	72.1	1.8
E 3150	(.	70.4	1.6
E 4000	(.	67.7	1.0
E 5000	(.	61.3	1.8
E 6300	(.	55.8	2.4
E 8000	(.	51.1	2.9
E 10000	(.	46.7	3.4

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

KC-97 APPROACH POWER-JETS 35 IN HG 2350 RPM 60 X RPM

AIRSPEED = 130 KNOTS TEMP = 59 F PNLT = 98.0 PNDB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 96.0 PNDB

NO. OF RECORDS = 4 IDENT: 6.6-081-109-090276 ALT = 84.3 DBA

KC-97 APPROACH POWER-JETS													X													X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
200	(((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((

200	(	KC-97	APPROACH POWER-JETS	60 X RPM	ST	E
250	(	35 IN HG	2350 RPM	.	.	ST E
315	(	AIRSPEED = 130 KNOTS		.	.	ST E
400	(	TEMP = 59 F	REL HUMID = 70 X	.	.	ST E
500	(	DELTA N = 0.0 DB		.	.	ST E
630	(	NO. OF RECORDS: 4		.	.	ST E
800	(	IDENT: 6.6-081-109-090276-A		.	.	ST E
1000	(			.	.	ST E
1250	(			.	.	ST E
1600	(			.	.	ST E
2000	(			.	.	ST E
2500	(			.	.	ST E
3150	(			.	.	ST E
4000	(			.	.	ST E
5000	(			.	.	ST E
6300	(			.	.	ST E
8000	(			.	.	ST E
10000	(			.	.	ST E
12500	(			.	.	ST E
16000	(			.	.	ST E
20000	(			.	.	ST E
25000	(			.	.	ST E

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:
(KC-97)	(APPROACH POWER-JETS 35 IN HG 2350 RPM 60 X RPM AIRSPEED = 130 KNOTS DELTA N = 0.0 DB)	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)	
200	95.2	95.2	110.0	110.0	97.1	98.5	103.1	103.1	OMEGA 6.6
250	93.0	93.0	107.8	107.8	96.0	97.3	101.8	101.8	
315	90.8	90.8	105.5	105.5	94.8	96.1	100.5	100.5	
400	88.6	88.6	103.1	103.1	93.2	94.9	99.1	99.1	A/C CODE: 081
500	86.3	86.3	100.6	100.6	92.2	93.6	97.7	97.7	OPS CODE: 109
630	83.9	83.9	98.0	98.0	90.9	92.2	96.1	96.1	PROFILE VER: A
800	81.5	81.5	95.3	95.3	89.4	90.8	94.4	94.4	0 FEB 76
1000	79.0	79.0	92.5	92.5	87.9	89.2	92.5	92.5	PAGE M4
1250	76.3	76.3	89.3	89.3	86.2	87.6	90.4	90.4	
1600	73.5	73.5	85.9	85.9	84.5	85.8	88.0	88.0	
2000	70.7	70.7	82.3	82.3	82.6	83.9	85.7	85.7	
2500	67.5	67.5	78.3	78.3	80.4	81.8	82.4	82.4	
3150	64.0	64.0	74.1	74.1	77.9	79.3	79.2	79.2	
4000	60.1	60.1	69.5	69.5	75.1	76.1	75.1	75.1	
5000	55.9	55.9	64.5	64.5	71.8	72.6	71.0	71.0	
6300	51.3	51.3	59.2	59.2	68.3	68.8	66.4	66.4	
8000	47.4	47.4	54.9	54.9	65.3	65.6	62.9	62.9	
10000	43.3	43.3	50.2	50.2	62.2	62.2	58.0	58.0	
12500	38.8	38.8	44.9	44.9	58.8	58.8	54.6	54.6	
16000	34.1	34.1	38.6	38.6	55.0	55.0	49.3	49.3	
20000	29.0	29.0	31.1	31.1	51.0	51.0	42.9	42.9	
25000	23.7	23.7	20.7	20.7	45.6	46.6	33.4	33.4	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

1. *Phragmites* (Common reed)

10

9
F

2
2-)

[illegible]

NOISE PRODUCED ON THE 22 JUL 87

44-38861-1000

UJZMZNG CZCNCZ QJW-JD QPZRATIONS

TEST 7-601-001
AIRCRAFT CODE 131
PROFILE VERSION A
COMPUTER PROGRAM C-54

2000

1-3
1-4
1-5
1-6

[illegible]

THE UNIVERSITY OF CHICAGO

[illegible]

14 MAY 76

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)															
1/3 OCTAVE BAND															
DISTANCE = 256 FEET															
NOISE SOURCE/SUBJECT:															
KC-97L AIRCRAFT															
R4360-59B ANJ J47-GE-25A															
GROUND RUNUP															
OPERATIONS:															
10LE, NO JETS, KC-97L															
SINGLE RECIP ENGINE															
900 RPM (RECIP)															
GROUND RUNUP															
METEOROLOGY:															
TEMP = 59 F															
BAR PRESS = 29.92 IN HG															
REL HUMID = 73 %															
DELTA M = -6.0 DB															
AIRCRAFT CODE 001															
OPERATION CODE 0013															
PROFILE VERSION A															
14 MAY 76															
PAGE C1															
IDENTIFICATION:															
OMEGA 8.2															
TEST 76-001-001															
RUN 81															
BAND CENTER															
FREQ (HZ)															
50	73	73	75	73	73	73	75	73	73	73	75	73	73	73	71
63	73	73	72	73	73	73	72	73	73	73	71	71	71	71	61
80	81	81	82	82	83	83	83	83	83	83	86	85	82	81	57
100	82	83	84	83	85	85	84	86	84	84	86	85	85	83	66
125	78	78	80	79	78	78	77	79	80	79	77	78	79	80	79
160	75	73	76	74	73	73	74	74	74	72	70	71	72	73	76
200	69	68	70	68	68	68	67	67	67	66	62	64	66	66	66
250	68	66	69	65	65	65	65	65	65	65	61	63	64	64	59
315	65	63	66	62	61	61	61	61	61	61	57	58	58	58	49
400	64	61	63	60	59	59	58	58	58	58	54	52	53	57	48
500	62	59	61	59	55	55	55	55	55	55	51	51	51	55	46
630	58	55	58	56	51	51	52	50	50	48	46	47	48	49	40
800	55	52	56	54	50	50	51	47	47	46	44	47	49	49	38
1000	54	51	55	53	49	49	49	45	45	46	45	47	48	49	36
1250	52	52	57	55	50	50	50	47	47	48	45	47	49	50	35
1600	54	54	61	59	53	53	51	48	48	49	45	49	51	52	35
2000	54	51	53	52	49	49	48	46	46	47	46	48	50	51	36
2500	53	50	53	52	49	49	48	45	45	47	46	48	50	51	37
3150	54	50	53	52	49	49	48	47	47	49	48	49	51	51	34
4000	51	48	51	51	48	48	47	46	46	47	46	48	50	51	34
5000	48	45	48	48	45	45	45	44	44	45	44	45	48	49	32
6300	44	42	45	45	43	43	42	41	41	42	41	43	46	47	32
8000	44	42	43	43	41	41	41	40	40	41	40	41	43	44	30
10000	41	40	42	42	40	40	41	40	40	41	40	41	43	44	26
OVERALL	67	67	68	67	68	68	68	68	68	67	68	67	67	66	63

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
KC-97L AIRCRAFT																
K46C-593 AND J47-62-25A																
GROUND RUNUP																
OPERATIONS:																
IDLE, NO JETS, KC-97L																
SINGLE RECIP ENGINE																
900 RPM (RECIP)																
GROUND RUNUP																
METEOROLOGICAL DATA:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 73 %																
DELTA M = -6.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 76-381-831																
AIRCRAFT CODE 001																
OPERATION CODE 0013																
PROFILE VERSION A																
14 MAY 76																
PAGE 01																
DISTANCE																
(FEET)																
	5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	90.0	89.0	88.0	87.0	86.0	85.0	84.0	83.0	82.0	81.0	80.0	79.0	78.0	77.0	76.0	75.0
250	87.9	86.8	85.7	84.6	83.5	82.4	81.3	80.2	79.1	78.0	76.9	75.8	74.7	73.6	72.5	71.4
315	85.6	84.5	83.4	82.3	81.2	80.1	79.0	77.9	76.8	75.7	74.6	73.5	72.4	71.3	70.2	69.1
400	83.3	82.2	81.1	80.0	78.9	77.8	76.7	75.6	74.5	73.4	72.3	71.2	70.1	69.0	67.9	66.8
500	80.0	78.9	77.8	76.7	75.6	74.5	73.4	72.3	71.2	70.1	69.0	67.9	66.8	65.7	64.6	63.5
630	78.2	77.1	76.0	74.9	73.8	72.7	71.6	70.5	69.4	68.3	67.2	66.1	65.0	63.9	62.8	61.7
800	75.4	74.3	73.2	72.1	71.0	69.9	68.8	67.7	66.6	65.5	64.4	63.3	62.2	61.1	60.0	58.9
1000	72.2	71.1	70.0	68.9	67.8	66.7	65.6	64.5	63.4	62.3	61.2	60.1	59.0	57.9	56.8	55.7
1250	68.7	67.6	66.5	65.4	64.3	63.2	62.1	61.0	59.9	58.8	57.7	56.6	55.5	54.4	53.3	52.2
1600	64.9	63.8	62.7	61.6	60.5	59.4	58.3	57.2	56.1	55.0	53.9	52.8	51.7	50.6	49.5	48.4
2000	61.1	60.0	58.9	57.8	56.7	55.6	54.5	53.4	52.3	51.2	50.1	49.0	47.9	46.8	45.7	44.6
2500	56.8	55.7	54.6	53.5	52.4	51.3	50.2	49.1	48.0	46.9	45.8	44.7	43.6	42.5	41.4	40.3
3150	51.9	50.8	49.7	48.6	47.5	46.4	45.3	44.2	43.1	42.0	40.9	39.8	38.7	37.6	36.5	35.4
4000	46.1	45.0	43.9	42.8	41.7	40.6	39.5	38.4	37.3	36.2	35.1	34.0	32.9	31.8	30.7	29.6
5000	39.8	38.7	37.6	36.5	35.4	34.3	33.2	32.1	31.0	29.9	28.8	27.7	26.6	25.5	24.4	23.3
6300	29.5	28.4	27.3	26.2	25.1	24.0	22.9	21.8	20.7	19.6	18.5	17.4	16.3	15.2	14.1	13.0
8000	20.1	19.0	17.9	16.8	15.7	14.6	13.5	12.4	11.3	10.2	9.1	8.0	6.9	5.8	4.7	3.6
10000	9.7	8.6	7.5	6.4	5.3	4.2	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)															IDENTIFICATIONS	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															TEST 74-381-881	
NOISE SOURCE/SUBJECTS															RUN 81	
(RC-97L AIRCRAFT)															AIRCRAFT CODE 001	
(24362-593 AND J47-62-25A)															OPERATION CODE 88013	
(SINGLE RECIP ENGINE)															PROFILE VERSION A	
(943 RPM (RECIP))															14 MAY 76	
(GROUND RUNUP)															PAGE 51	
METEOROLOGICAL DATA															DELTA M = -5.0 DB	
TEMP = 59 F															REL HUMID = 73 %	
BAR PRESS = 29.92 IN HG															WIND DIR = 0	
WIND SPEED = 0 KTS															WIND GUST = 0 KTS	
DISTANCE (FEET)															ANGLE (DEGREES)	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OJA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION)										IDENTIFICATIONS:									
KC-97L AIRCRAFT										) OMEGA 8.2									
Q4360-598 AND J47-GE-25A										) TEST 74-881-881									
GROUND RUNUP										) RUN 01									
IDLE, NO JETS, KC-97L										) AIRCRAFT CODE J81									
SINGLE RECIP ENGINE										) OPERATION CODE 08413									
900 RPM (RECIP)										) PROFILE VERSION A									
GROUND RUNUP										) 14 MAY 76									
METEOROLOGY:										) PAGE G1									
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = -6.8 DB																			
DISTANCE (FEET)										ANGLE (DEGREES)									
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	76.9	72.3	76.3	74.4	72.9	71.3	73.5	72.3	72.1	70.9	71.8	71.9	72.1	71.6	73.2	72.9	69.2	59.2	49.2
250	74.8	70.3	74.3	72.3	70.9	69.3	71.5	70.2	70.1	68.9	69.7	69.8	70.0	69.6	71.2	70.8	67.2	57.2	47.2
315	72.8	68.2	72.2	70.3	68.9	67.4	69.5	68.2	68.0	66.8	67.7	67.8	68.0	67.5	69.1	68.6	65.1	55.1	45.1
400	70.6	66.1	70.1	68.2	66.8	65.8	67.4	66.1	66.0	64.8	65.7	65.7	65.9	65.4	67.3	66.7	63.1	53.1	43.1
500	68.5	64.0	67.9	66.0	64.6	63.6	65.3	64.0	63.8	62.7	63.6	63.6	63.8	63.3	64.8	64.5	60.9	50.9	40.9
630	66.2	61.7	65.6	63.7	62.4	61.4	63.1	61.7	61.5	60.5	61.4	61.4	61.5	60.9	62.4	62.2	58.6	48.6	38.6
800	63.7	59.3	63.2	61.3	60.0	59.0	60.7	59.3	59.1	58.1	58.9	58.9	59.0	58.5	59.9	59.8	56.2	46.2	36.2
1000	61.2	56.6	60.6	58.7	57.3	56.3	58.1	56.6	56.4	55.4	56.2	56.1	56.2	55.6	57.2	57.2	53.5	43.5	33.5
1250	58.4	53.7	57.7	55.8	54.3	53.3	55.0	53.5	53.3	52.3	53.1	53.1	53.2	52.7	54.3	54.3	50.6	40.6	30.6
1500	55.4	50.8	54.7	52.7	51.1	50.1	51.6	50.2	49.9	49.0	49.7	49.7	49.9	49.4	51.1	51.4	47.6	37.6	27.6
2000	52.3	47.3	51.5	49.4	47.5	46.6	47.9	46.6	46.3	45.3	46.0	46.0	46.2	45.9	47.7	48.2	44.1	34.1	24.1
2500	48.9	43.6	47.9	45.7	43.6	42.7	43.8	42.5	42.2	41.2	41.9	41.9	42.3	41.9	43.9	44.7	40.4	30.4	20.4
3150	45.0	39.5	43.9	41.8	39.2	38.3	39.2	38.0	37.8	36.7	37.3	37.4	37.8	37.5	39.7	40.8	36.2	26.2	16.2
4000	40.2	34.9	39.2	37.1	34.1	33.4	33.9	33.0	32.3	31.5	31.9	32.2	32.6	32.5	34.8	36.3	31.3	21.3	11.3
5000	35.2	30.3	34.4	32.3	29.3	28.8	29.1	28.5	27.5	26.9	27.1	27.4	27.8	28.0	30.0	31.6	26.5	16.5	6.5
6300	29.6	25.6	29.4	27.3	24.5	24.1	24.3	23.9	22.7	22.8	22.3	22.6	22.9	23.4	25.1	26.6	21.6	11.6	1.6
8000	25.4	22.2	25.3	23.4	21.2	20.9	21.6	21.4	19.6	19.3	19.5	19.7	19.8	20.4	21.6	23.2	18.2	8.2	
10000	20.9	18.7	21.2	19.4	18.0	17.8	18.9	18.1	16.7	16.1	16.7	16.8	16.7	17.3	18.1	19.6	14.7	4.7	
12500	17.1	15.4	17.6	15.9	15.1	14.8	16.3	15.4	14.0	13.4	14.1	14.1	13.9	14.6	14.8	16.0	11.5	1.5	
15000	13.3	12.0	14.0	12.5	12.2	11.9	13.7	12.6	11.3	10.7	11.5	11.4	11.1	11.7	11.6	12.4	8.3		
20000	9.6	8.7	10.5	9.2	9.3	9.0	11.3	9.9	8.6	8.0	8.8	8.6	8.2	8.8	7.3	8.7	5.0		
25000	6.0	5.5	7.1	6.0	6.4	6.0	8.3	7.0	5.8	5.2	6.1	5.8	5.3	5.9	5.1	5.8	1.7		

> SPL DATA WERE EXTRAPOLATED FOR T415 ANGLE.

TABLE NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

KC-97L AIRCRAFT

R4360-598 AND J47-GE-25A

GROUND RUNUP

OPERATION:

IDLE, NO JETS, KC-97L

SINGLE RECIP ENGINE

900 RPM (RECIP)

GROUND RUNUP

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:

OMEGA A-2

TEST 74-001-001

RUN 01

AIRCRAFT CODE 001

OPERATION CODE 0013

PROFILE VERSION A

15 MAY 76

PAGE 11

ANGLE IN DEGREES	P=PNLT										T=ALT									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 081																
KC-97L AIRCRAFT (MAGNETO CHECK, KC-97L) TEMP = 59 F) OPERATION CODE 90408																
R4360-598 AND J47-GE-25A (SINGLE RECIP ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																
GROUND RUNUP (2050 RPM (RECIP)) REL HUMID = 70 %) 14 MAY 76																
(GROUND RUNUP) DELTA N = -6.0 DB) PAGE C2																
BAND CENTER																
FREQ (HZ)																
ANGLE (DEGREES)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
50	87	88	86	89	90	89	89	90	93	93	95	94	94	91	90	84
63	76	78	77	85	78	79	78	78	80	82	82	81	83	81	81	76
80	80	83	85	87	87	86	90	87	88	90	89	89	88	87	83	81
100	89	90	89	88	83	86	87	87	84	88	88	87	87	86	82	83
125	81	82	81	85	80	79	79	78	78	76	79	79	79	79	81	75
160	87	90	92	87	87	88	89	86	85	82	86	88	88	87	85	80
200	90	90	89	87	87	84	87	85	83	82	85	85	85	84	85	80
250	87	88	88	86	82	81	82	78	77	72	73	74	76	77	78	73
315	85	88	86	83	82	83	81	75	75	71	70	72	77	77	77	71
400	86	89	87	86	84	84	80	76	73	72	70	71	76	77	77	73
500	83	87	84	86	82	80	79	76	74	75	73	73	75	76	76	72
630	81	84	82	85	79	78	78	76	75	75	72	73	74	77	74	72
800	80	82	82	82	79	78	78	77	77	74	73	73	74	77	74	72
1000	78	79	80	80	77	77	77	76	77	73	72	73	74	74	72	69
1250	77	78	78	78	77	76	76	77	78	72	72	73	74	74	72	68
1600	77	78	78	78	78	77	77	77	78	73	72	73	74	74	72	68
2000	75	77	77	77	77	77	77	77	78	73	72	72	72	73	70	67
2500	74	76	77	77	77	78	78	77	78	73	73	73	73	73	69	66
3150	75	75	77	77	78	79	78	78	78	75	74	74	74	73	69	66
4000	75	76	77	78	78	79	78	78	77	74	71	71	72	71	68	66
5000	72	73	75	76	76	76	76	75	74	71	68	68	68	67	65	62
6300	70	71	73	74	75	74	74	73	73	70	66	66	66	65	63	62
8000	69	70	72	73	73	74	72	73	71	67	64	63	64	62	61	59
10000	67	69	71	72	72	72	71	72	70	63	60	58	59	58	56	54
OVERALL	97	99	96	98	97	96	97	96	97	96	97	97	97	95	94	90

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
KC-97L AIRCRAFT																			
R4360-593 AND J47-GE-25A																			
GROUND RUNUP																			
(OPERATIONS:																			
MAGNETO CHECK, KC-97L																			
SINGLE RECIP ENGINE																			
2650 RPM (KECIP)																			
GROUND RUNUP																			
(METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA M = -6.8 DB																			
PAGE 02																			
IDENTIFICATIONS:																			
OMEGA 4.2																			
TEST 76-801-041																			
RUN 5																			
AIRCRAFT CODE 391																			
OPERATION CODE 88488																			
PROFILE VERSION A																			
14 MAY 76																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
230	106.6	107.9	107.7	108.1	107.4	107.3	107.0	106.1	105.3	103.8	102.4	102.5	103.0	102.5	100.7	96.0	90.0	83.8	76.8
250	103.0	105.7	105.3	105.0	105.1	105.0	104.7	103.8	103.7	100.8	100.1	100.2	100.7	100.3	98.6	94.6	87.7	80.7	73.7
300	101.6	103.5	103.1	103.4	102.7	102.6	102.4	101.4	101.3	98.4	97.9	98.3	98.5	98.0	96.4	92.4	85.3	78.3	71.3
400	99.3	101.2	100.7	101.0	100.3	100.1	99.9	99.0	98.9	96.3	95.5	95.5	95.5	95.1	93.5	90.4	82.9	75.9	68.9
500	98.9	98.9	98.2	98.5	97.7	97.5	97.4	96.4	96.3	93.5	92.9	93.0	93.6	93.1	91.5	87.5	80.3	73.3	66.3
600	94.4	96.5	95.8	95.8	95.1	94.8	94.7	93.8	93.7	90.8	90.3	90.4	90.9	90.5	88.9	84.8	77.7	70.7	63.6
800	91.9	94.3	93.2	93.2	92.3	92.3	91.9	90.9	90.8	88.3	87.5	87.6	88.1	87.7	86.2	82.0	74.9	67.9	60.7
1000	89.2	91.3	90.5	90.4	89.3	89.3	88.9	87.8	87.3	84.9	84.4	84.0	85.1	84.3	83.2	79.0	72.0	64.9	57.4
1250	86.4	88.5	87.6	87.0	86.0	85.7	85.7	84.5	84.7	81.6	81.2	81.3	81.9	81.7	79.9	76.1	69.0	61.9	54.4
1500	83.4	85.6	84.5	84.5	82.9	82.4	82.3	81.0	81.2	78.1	77.8	77.9	78.4	78.3	76.7	73.0	65.9	58.7	51.4
2000	84.2	82.5	81.4	81.4	79.6	79.2	78.5	77.2	77.5	74.2	74.0	74.1	74.7	74.7	73.4	69.7	62.6	55.8	48.4
2500	76.3	78.6	77.5	77.5	75.6	75.2	74.4	73.1	73.3	70.0	69.8	70.0	70.6	70.8	69.4	65.7	58.4	51.4	44.7
3150	71.9	74.3	73.1	73.4	71.2	70.7	69.8	68.6	69.4	65.5	65.0	65.6	66.3	66.8	65.1	61.4	53.9	46.3	39.8
4000	67.0	69.6	68.1	68.0	66.3	65.6	65.2	63.7	64.2	60.4	60.4	60.6	61.3	62.2	60.3	56.6	48.5	41.5	34.4
5000	61.9	64.0	63.1	63.9	61.2	60.1	60.0	58.4	58.8	55.2	54.4	55.1	55.9	57.1	55.1	51.5	42.8	35.8	28.9
6300	56.0	59.4	57.8	58.5	55.9	54.4	54.4	52.6	52.9	49.2	48.2	48.6	49.9	51.6	49.2	45.6	36.2	29.2	22.3
8000	52.3	55.4	53.5	54.4	51.3	49.8	49.7	47.4	47.0	43.8	42.6	43.4	44.8	46.3	44.1	39.8	30.2	23.2	16.7
14000	47.7	50.9	48.9	49.9	46.3	44.5	44.3	41.3	40.6	37.5	36.1	37.3	38.8	40.5	38.7	33.6	22.2	7.0	
12500	42.3	40.9	43.5	44.3	40.6	38.7	37.6	34.0	33.4	30.7	29.7	29.7	32.3	34.0	32.7	26.6	13.8		
16000	36.3	40.0	37.2	38.0	33.5	31.3	30.9	25.3	22.5	26.7	17.2	19.8	22.4	25.7	23.4	17.9	3.8		
20000	29.3	33.2	30.5	30.7	25.4	23.7	20.3	12.3	8.3	8.8	5.6	8.3	9.6	14.9	12.2	9.1			
25000	17.2	24.0	18.7	20.9	13.7	12.9	9.6							4.2	1.1				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
IDENTIFICATION:																
OMEGA 8.2																
TEST 7.0-081-081																
RUN 02																
AIRCRAFT CODE 081																
OPERATION CODE 00408																
PROFILE VERSION A																
14 MAY 76																
PAGE 22																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -6.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	160	170	180													
200	107.3	109.1	108.8	105.1	104.2	104.4	107.9	116.8	108.8	103.7	103.2	103.4	103.7	103.4	101.3	97.7
250	105.1	106.9	106.5	105.6	105.9	106.0	105.6	104.5	104.5	101.5	101.0	101.2	101.4	101.2	99.1	95.5
315	102.5	104.7	104.2	103.4	103.6	103.7	103.3	102.1	102.2	99.2	98.7	98.9	99.1	98.5	96.9	93.2
400	100.6	102.4	101.8	101.0	101.1	101.2	100.8	99.7	99.8	96.7	96.3	96.5	96.8	96.5	94.6	90.9
500	98.2	100.1	99.3	98.5	98.6	98.6	98.3	97.1	97.2	94.2	93.8	94.0	94.2	94.0	92.1	88.4
630	95.8	97.7	96.9	95.8	95.9	95.9	95.0	94.5	94.5	91.5	91.1	91.4	91.6	91.4	89.5	85.7
800	93.2	95.2	94.3	93.2	93.1	93.1	92.6	91.6	91.7	88.7	88.3	88.6	88.8	88.6	86.7	82.8
1000	90.5	92.5	91.6	90.4	90.1	90.0	89.8	88.5	88.7	85.7	85.3	85.5	85.8	85.7	83.7	79.8
1250	87.7	89.7	88.7	87.6	86.8	86.7	86.6	85.2	85.5	82.4	82.0	82.3	82.6	82.6	80.5	76.9
1600	84.7	86.8	85.7	84.5	83.7	83.5	83.2	81.7	82.1	78.8	78.6	78.8	79.1	79.2	77.2	73.9
2000	81.6	83.7	82.5	81.4	80.4	80.2	79.5	77.9	78.4	74.9	74.8	75.1	75.4	75.6	73.9	70.6
2500	77.7	79.8	78.6	77.5	76.4	76.2	75.3	73.8	74.2	70.7	70.6	70.9	71.3	71.8	70.0	66.6
3150	73.3	75.5	74.2	73.4	72.0	71.8	70.8	69.3	69.9	66.2	65.9	66.5	66.9	67.8	65.7	62.3
4000	68.1	70.5	69.0	68.0	67.0	66.5	65.9	64.3	64.9	61.2	60.7	61.4	61.9	62.9	60.8	57.3
5000	62.7	65.3	63.7	63.9	61.7	60.7	60.8	58.8	59.4	55.6	54.9	55.7	56.3	57.6	55.4	52.0
6300	57.2	59.9	58.2	58.5	56.1	54.8	54.7	52.8	53.3	49.5	48.6	49.0	50.2	51.9	49.4	45.9
8000	52.6	55.6	53.7	54.4	51.5	50.0	49.9	47.5	47.5	44.0	42.8	43.6	44.9	46.5	44.2	40.0
10000	47.7	50.9	48.9	49.9	46.3	44.5	44.3	41.3	41.3	37.5	36.1	37.0	38.8	40.5	38.7	33.6
12500	42.3	46.4	43.5	44.3	40.3	38.7	37.8	34.0	33.4	30.0	28.7	29.7	32.3	34.0	32.7	26.6
16000	36.3	40.0	37.2	38.0	33.5	31.9	30.9	25.3	25.3	22.5	20.7	19.0	22.4	25.7	23.4	17.9
20000	29.3	33.2	30.5	30.7	25.4	23.7	20.3	12.3	12.3	8.3	5.6	8.3	9.5	14.9	12.2	9.1
25000	17.2	24.0	18.7	20.9	13.7	12.9	9.6							4.2	1.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
KC-97L AIRCRAFT																
R4360-598 AND J47-GE-25A																
GROUND RUNUP																
OPERATIONS:																
MAX POWER NO JEIS, KC-97L																
SINGLE RECIP ENGINE																
GROUND RUNUP																
METEOROLOGICAL:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -6.8 DB																
IDENTIFICATIONS:																
OMEGA 8.2																
TEST 74-881-891																
RUN 83																
AIRCRAFT CODE 881																
OPERATION CODE 88437																
PROFILE VERSION A																
14 MAY 76																
PAGE C3																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160 >170 >180
78	79	80	77	70	79	80	80	85	87	85	86	86	85	82	81	74 68 61
95	98	100	96	97	97	96	100	107	110	108	109	107	106	101	98	92 85 78
83	85	86	85	85	86	88	88	94	96	94	94	94	93	88	86	88 73 66
86	86	88	85	86	85	88	91	89	92	93	95	98	96	93	91	84 78 71
94	96	99	98	96	94	92	100	103	103	103	98	97	96	92	90	84 77 70
91	89	91	89	88	91	89	91	93	93	94	95	99	96	95	90	83 77 70
96	98	96	92	89	89	90	91	96	97	93	90	94	92	90	81	74 68 61
95	93	95	92	89	88	88	85	86	88	90	88	87	89	86	82	75 68 62
94	92	93	88	89	87	86	82	84	87	85	86	84	84	84	81	74 68 61
95	93	91	90	90	89	85	82	84	87	85	86	81	84	84	81	74 68 61
92	92	91	91	89	85	86	85	88	87	85	86	82	84	85	82	76 69 62
91	89	90	90	87	84	88	87	88	86	84	84	83	85	85	82	75 69 62
90	88	89	88	88	85	88	89	88	86	84	84	83	84	84	80	73 67 68
88	86	87	86	87	85	88	83	89	86	85	84	83	84	84	80	73 67 68
87	85	87	86	86	87	89	89	89	86	85	85	84	84	83	79	72 66 59
86	86	87	87	87	88	89	90	89	86	85	85	85	84	83	79	73 66 59
86	86	87	88	88	88	88	89	89	86	85	85	84	83	83	79	73 66 59
86	85	87	88	88	88	88	89	89	87	85	86	84	83	82	80	74 67 68
86	85	87	87	88	88	88	89	89	88	86	86	85	85	83	81	74 68 61
85	85	87	88	88	88	88	89	88	86	85	85	84	83	82	79	73 66 59
83	82	84	85	85	85	85	85	84	84	81	80	80	80	79	76	69 63 56
80	80	82	82	82	83	82	82	82	81	79	79	78	77	77	74	68 61 54
78	78	81	81	81	81	81	81	80	79	76	76	76	75	74	72	65 58 52
77	76	79	75	80	80	79	80	73	74	71	78	71	69	69	67	68 53 47
OVERALL	105	105	106	104	103	103	102	105	110	112	110	109	108	104	101	94 88 81

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNOL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
KC-97L AIRCRAFT																			
R4360-598 AND J47-GE-25A																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 8-2																			
TEST 74-381-001																			
METEOROLOGY:																			
TEMP = 53 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = -6.0 DB																			
AIRCRAFT CODE 001																			
OPERATION CODE 0037																			
PROFILE VERSION A																			
14 MAY 76																			
PAGE 03																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	115.2	114.6	116.0	115.7	115.6	115.6	116.1	116.4	116.8	116.4	114.9	114.7	114.8	113.4	111.9	109.0	102.3	95.6	88.7
250	113.0	112.4	113.8	113.4	113.3	113.3	113.8	114.2	114.6	114.2	112.7	112.5	111.6	111.1	109.7	106.8	100.1	93.3	86.4
315	110.7	110.1	111.4	111.1	111.0	111.0	111.4	111.8	112.3	112.0	110.6	110.4	109.6	108.9	107.4	104.5	97.8	90.9	84.0
400	108.4	107.7	109.0	108.6	108.5	108.5	109.0	109.5	109.9	109.8	108.4	108.1	107.4	106.7	105.0	102.1	95.4	88.5	81.6
500	106.0	105.3	106.5	106.1	106.0	106.0	106.5	107.0	107.5	107.5	106.0	105.9	105.1	104.4	102.6	99.7	92.9	85.9	79.0
630	103.6	102.7	103.9	103.5	103.3	103.4	103.9	104.3	104.9	105.2	103.5	103.5	102.8	102.0	100.0	97.1	90.2	83.3	76.3
800	101.4	100.0	101.2	100.8	100.6	100.6	101.1	101.6	102.2	102.7	101.0	101.1	100.3	99.6	97.3	94.3	87.4	80.4	73.5
1000	98.4	97.2	98.4	97.9	97.7	97.7	98.1	98.7	99.5	100.1	98.5	98.5	97.7	97.0	94.4	91.4	84.4	77.4	70.4
1250	95.6	94.3	95.3	94.8	94.6	94.5	95.0	95.6	96.7	97.4	95.7	95.9	95.0	94.3	91.5	88.2	81.1	74.2	67.2
1500	92.6	91.3	91.9	91.4	91.2	91.1	91.6	92.2	93.4	94.1	92.4	92.5	91.7	90.9	87.9	84.6	77.7	70.7	63.6
2000	89.5	88.1	89.2	87.7	87.5	87.3	87.9	88.5	89.7	90.5	88.8	88.9	88.0	87.2	84.0	80.9	73.9	66.9	59.7
2500	85.6	84.3	84.6	83.8	83.4	83.2	83.9	84.4	85.3	86.3	84.5	84.5	83.6	82.8	79.5	76.4	69.4	62.7	55.3
3150	81.3	80.2	80.4	79.6	79.1	78.8	79.6	80.2	80.8	81.2	79.2	79.4	78.2	77.5	75.7	72.5	65.4	58.2	50.3
4000	76.5	75.6	75.8	75.0	74.3	74.0	75.0	75.6	76.1	76.4	73.6	73.6	72.5	72.2	71.2	67.9	60.7	53.2	44.8
5000	71.5	70.8	70.9	70.1	69.2	68.9	69.9	70.6	71.1	71.1	68.3	68.2	67.4	66.5	63.1	59.7	52.7	45.7	38.1
6300	66.4	65.6	65.3	64.9	64.0	63.3	64.4	65.1	65.6	65.6	62.8	62.6	61.8	61.3	57.8	54.8	47.8	40.8	32.1
8000	62.4	61.6	61.6	60.7	59.6	57.8	59.6	60.4	60.9	60.9	58.9	58.2	58.9	57.5	56.8	53.1	46.7	39.1	32.4
10000	57.9	57.1	57.1	56.1	54.8	52.7	54.4	55.3	55.9	55.4	53.7	53.6	51.9	52.7	51.6	47.6	40.1	32.2	24.2
12500	53.1	52.3	52.2	51.1	49.7	47.0	48.8	49.5	50.8	50.7	48.5	48.4	46.6	47.2	46.1	41.9	34.3	26.8	18.8
15000	47.8	47.0	46.8	45.4	43.8	40.9	42.0	42.3	43.4	43.4	41.2	41.1	39.4	40.5	39.0	35.0	27.4	20.0	12.6
20000	41.4	40.3	40.3	38.4	36.6	33.7	34.1	34.1	37.4	37.4	35.2	35.2	33.6	34.1	32.6	28.6	21.1	13.7	6.3
25000	34.1	33.0	32.5	31.0	28.2	23.2	23.2	22.9	28.9	28.9	26.1	26.1	24.6	25.2	24.2	20.4	12.3	5.0	-2.4
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1. TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:	IDENTIFICATION:																		
	) KC-97L																		
	) R4360-598 AND J47-GE-25A																		
	) GROUND RUNUP																		
DISTANCE (FEET)	METEOROLOGY:																		
	) TEMP = 53 F																		
	) BAR PRESS = 29.92 IN HG																		
	) REL HUMID = 70 %																		
) DELTA N = -6.0 DB																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	116.2	116.0	117.7	117.5	117.1	116.7	116.1	117.0	116.8	116.2	116.5	114.7	114.5	113.4	112.6	109.0	102.3	95.6	88.7
250	114.0	113.7	115.4	115.2	114.8	114.4	113.8	115.6	115.6	115.0	114.3	112.5	112.3	111.1	110.3	106.8	100.1	93.3	86.4
315	111.7	111.4	113.1	112.8	112.5	112.0	111.4	113.3	113.3	112.7	112.0	110.2	109.9	108.7	107.8	104.5	97.8	90.9	84.0
400	109.4	109.1	110.6	110.4	110.0	109.6	109.0	110.9	110.9	110.3	109.6	107.9	107.9	106.7	105.7	102.1	95.4	88.5	81.6
500	107.0	106.6	108.1	107.8	107.5	107.1	106.5	108.4	108.4	107.8	107.1	105.4	105.4	104.4	103.3	99.7	92.9	85.9	79.0
630	104.5	104.3	105.5	105.2	104.8	104.4	103.9	105.7	105.7	105.0	104.3	102.6	102.6	101.7	100.7	97.1	90.2	83.3	76.3
800	102.0	101.4	102.8	102.5	102.1	101.6	101.1	103.0	103.0	102.2	101.5	99.8	99.8	98.6	97.4	94.3	87.4	80.4	73.5
1000	99.4	98.5	100.0	99.6	99.2	98.7	98.1	100.1	100.1	99.3	98.5	96.8	96.8	95.5	94.3	91.4	84.4	77.4	70.4
1250	96.6	95.7	96.9	96.5	96.1	95.5	95.0	97.0	97.0	96.1	95.3	93.6	93.6	92.2	91.0	88.1	81.1	74.2	67.2
1600	93.6	92.6	93.5	93.1	92.7	92.1	91.6	93.6	93.6	92.7	91.9	90.2	90.2	88.8	87.6	84.7	77.7	70.7	63.6
2000	90.5	89.4	89.9	89.5	89.0	88.4	87.9	89.9	89.9	89.0	88.2	86.5	86.5	85.1	83.9	81.0	73.9	66.9	59.7
2500	86.6	85.6	86.2	85.5	84.9	84.3	83.9	85.8	85.8	84.9	84.1	82.4	82.4	81.0	79.8	76.9	69.8	62.7	55.3
3150	82.3	81.5	82.1	81.4	80.8	80.2	79.6	81.6	81.6	80.7	79.9	78.2	78.2	76.8	75.6	72.7	65.7	58.7	51.3
4000	77.2	76.7	77.1	76.4	75.5	74.8	74.3	76.3	76.3	75.4	74.6	72.9	72.9	71.5	70.3	67.4	60.4	53.4	46.4
5000	72.1	71.6	71.9	71.2	70.3	69.5	69.0	71.0	71.0	70.1	69.3	67.6	67.6	66.2	65.0	62.1	55.1	48.1	41.1
6300	66.8	66.1	66.4	65.6	64.6	63.7	63.2	65.2	65.2	64.3	63.5	61.8	61.8	60.4	59.2	56.3	49.3	42.3	35.3
8000	62.6	61.8	61.9	61.0	59.9	58.1	57.6	59.6	59.6	58.7	57.9	56.2	56.2	54.8	53.6	50.7	43.7	36.7	29.7
10000	57.9	57.1	57.1	56.1	54.8	52.7	52.2	54.2	54.2	53.3	52.5	50.8	50.8	49.4	48.2	45.3	38.3	31.3	24.3
12500	53.1	52.3	52.2	51.1	49.7	47.3	46.8	48.8	48.8	47.9	47.1	45.4	45.4	44.0	42.8	40.0	33.0	26.0	19.0
16000	47.2	47.0	46.8	45.4	43.8	41.9	41.4	43.4	43.4	42.5	41.7	40.0	40.0	38.6	37.4	34.5	27.5	20.5	13.5
20000	41.4	41.3	40.3	38.4	36.6	33.7	34.1	36.1	36.1	35.2	34.4	32.7	32.7	31.3	30.1	27.2	20.2	13.2	6.2
25000	34.1	33.0	32.5	31.0	28.2	23.2	23.2	25.2	25.2	24.3	23.5	21.8	21.8	20.4	19.2	16.3	9.3	2.3	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:														IDENTIFICATION:													
(KC-97L AIRCRAFT)														(C-130A 6.2)													
(R4360-593 AND J47-GL-25A)														(TEST 74-581-031)													
(GROUND RUNUP)														(RU4 03)													
()														() AIRCRAFT CODE 061)													
()														() OPERATION CODE 09-27)													
()														() PROFILE VERSION A)													
()														() 14 MAY 76)													
()														() PAGE F3)													
DISTANCE (FEET)														ANGLE (DEGREES)													
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180									
200	101.8	100.6	101.4	101.1	100.9	100.7	101.7	102.4	102.0	100.6	99.2	98.7	99.1	97.8	96.8	93.7	87.0	80.4	73.7								
250	99.6	98.4	99.3	98.9	98.7	98.5	99.5	99.8	99.0	98.4	97.0	96.6	96.0	95.6	94.7	91.5	84.9	78.2	71.5								
315	97.5	96.3	97.1	96.7	96.5	96.2	97.2	97.6	96.8	96.2	94.9	94.4	93.8	93.4	92.5	89.3	82.7	76.0	69.3								
400	95.3	94.1	94.9	94.4	94.2	93.9	94.9	95.3	94.5	93.9	92.6	92.1	91.5	91.2	90.2	87.1	80.4	73.7	67.1								
500	93.1	91.8	92.6	92.1	91.8	91.5	92.5	92.9	92.1	91.7	90.3	89.8	89.2	88.3	87.9	84.8	78.1	71.4	64.8								
630	91.8	90.5	91.2	90.7	90.4	90.1	91.1	91.5	90.5	89.2	87.9	87.4	86.7	85.5	85.6	82.4	75.7	69.0	62.4								
800	88.4	87.1	87.8	87.2	86.9	86.4	87.4	88.0	86.0	85.7	85.4	84.9	84.2	84.0	83.1	79.9	73.3	66.6	59.9								
1000	86.0	84.6	85.2	84.6	84.3	83.8	84.9	85.3	83.4	83.1	82.8	82.3	81.5	81.4	80.6	77.4	70.7	64.0	57.4								
1250	83.4	82.0	82.6	82.3	81.6	81.0	82.2	82.6	80.7	80.4	80.0	79.6	78.8	78.6	77.9	74.7	68.1	61.4	54.7								
1600	80.8	79.4	79.9	79.2	78.8	78.1	79.4	79.8	77.9	77.5	77.1	76.7	75.8	75.9	75.2	72.0	65.3	58.6	52.0								
2000	78.1	76.6	77.3	76.4	75.9	75.0	76.4	76.8	74.9	74.4	74.0	73.7	72.7	72.9	72.3	69.1	62.5	55.8	49.1								
2500	75.0	73.5	73.9	73.3	72.7	71.7	73.2	73.6	71.7	71.3	70.6	70.4	69.3	69.8	69.2	66.1	59.4	52.7	46.1								
3150	71.6	70.1	70.5	69.9	69.3	68.1	69.9	70.3	68.6	68.1	67.1	66.9	65.7	66.4	65.9	62.7	56.1	49.4	42.7								
4000	67.9	66.3	66.8	66.2	65.6	64.2	66.2	66.6	64.7	64.2	63.2	63.0	61.8	62.7	62.2	59.1	52.4	45.8	39.1								
5000	63.7	62.1	62.7	62.0	61.4	60.0	62.1	62.6	60.5	59.0	58.8	57.6	56.5	58.6	58.2	55.0	48.4	41.7	35.0								
6300	59.2	57.7	58.3	57.6	57.0	55.4	57.7	58.2	56.1	54.5	54.3	53.1	52.1	54.2	53.8	50.7	44.0	37.3	30.7								
8000	55.4	53.8	54.3	53.6	52.9	51.0	53.3	53.8	51.8	50.4	50.2	48.9	47.9	50.1	49.8	46.7	40.0	33.3	26.7								
10000	51.3	49.7	50.1	49.3	48.4	46.3	48.6	49.0	47.2	45.7	45.9	44.5	43.5	45.7	45.4	42.4	35.7	29.0	22.4								
12500	48.8	47.3	47.6	46.7	45.7	43.6	45.9	46.3	44.4	43.2	43.4	42.1	41.1	43.2	42.9	39.9	33.2	26.5	20.0								
16000	46.0	44.6	44.9	43.9	42.8	40.7	43.0	43.4	41.4	40.2	40.4	39.1	38.1	40.2	39.9	36.9	30.2	23.5	16.8								
20000	43.7	42.3	42.6	41.6	40.5	38.4	40.7	41.1	39.1	37.9	38.1	36.8	35.8	37.9	37.6	34.6	27.9	21.2	14.5								
25000	41.0	39.6	39.9	38.9	37.8	35.7	38.0	38.4	36.4	35.2	35.4	34.1	33.1	35.2	34.9	31.9	25.2	18.5	11.8								

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
KC-97L AIRCRAFT																
R436C-59B AND J47-GE-25A																
GROUND RUNUP																
OPERATION:																
MAX POWER NO JETS, KC-97L																
SINGLE RECIP ENGINE																
GROUND RUNUP																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -6.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-001-001																
AIRCRAFT CODE 001																
OPERATION CODE 00437																
PROFILE VERSION A																
14 MAY 76																
PAGE 63																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
ANGLE (DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	107.7	111.9	103.1	102.8	102.4	101.8	101.7	103.4	103.9	102.4	130.8	98.7	98.7	97.8	97.5	93.7
250	100.6	99.8	100.9	100.6	100.2	99.6	99.5	101.2	101.7	100.3	98.7	96.6	96.5	95.5	95.3	91.5
315	98.5	97.6	98.7	98.4	98.0	97.3	97.2	99.0	99.5	98.1	96.5	94.4	94.3	93.4	93.1	89.3
400	96.3	95.4	96.5	96.1	95.7	94.9	94.9	96.7	97.3	95.8	94.2	92.1	92.0	91.2	90.9	87.1
500	94.0	93.2	94.2	93.8	93.3	92.5	92.5	94.3	94.9	93.5	91.9	89.8	89.7	88.3	88.6	84.8
630	91.7	90.8	91.8	91.4	90.9	90.1	90.1	91.9	92.5	91.1	89.5	87.4	87.2	86.5	86.2	82.4
800	89.4	88.5	89.4	88.9	88.4	87.5	87.8	89.4	90.0	88.5	87.0	84.9	84.7	84.0	83.8	79.9
1000	87.0	86.0	86.9	86.4	85.8	84.8	84.9	86.8	87.4	85.9	84.4	82.3	82.1	81.4	81.2	77.4
1250	84.4	83.4	84.2	83.7	83.1	82.0	82.2	84.0	84.7	83.2	81.6	79.6	79.3	78.8	78.6	74.7
1600	81.8	80.7	81.5	81.0	80.3	79.1	79.4	81.2	81.8	80.3	78.7	76.7	76.3	75.9	75.8	72.0
2000	79.1	78.0	78.6	78.1	77.4	76.1	76.4	78.2	78.8	77.2	75.6	73.7	73.2	72.9	73.0	69.1
2500	76.0	74.9	75.5	75.0	74.2	72.7	73.2	75.1	75.7	73.9	72.3	70.4	69.8	69.8	69.9	66.1
3150	72.6	71.4	72.2	71.7	70.8	69.2	69.9	71.7	72.3	70.4	68.7	66.9	66.2	66.4	66.5	62.7
4000	68.6	67.4	68.1	67.6	66.8	65.1	66.2	67.8	68.2	66.2	64.5	63.3	62.2	62.7	62.8	59.1
5000	64.3	62.9	63.7	63.1	62.3	60.6	62.1	63.4	63.7	61.8	60.0	58.8	57.9	58.6	58.6	55.0
6300	59.6	58.2	58.9	58.3	57.6	55.8	57.7	59.7	59.9	58.0	56.2	54.3	53.3	54.2	54.1	50.7
8000	55.6	54.1	54.7	53.9	53.2	51.2	53.3	54.0	54.2	52.4	50.7	49.0	49.0	49.1	49.9	46.7
10000	51.3	49.7	50.1	49.3	48.4	46.3	48.6	49.0	49.2	47.7	46.1	45.9	44.6	45.7	45.4	42.4
12500	46.8	45.3	45.6	44.7	43.7	41.4	43.6	43.8	44.4	43.2	41.7	41.4	40.1	41.1	40.6	37.7
16000	42.0	40.6	40.7	39.8	38.6	36.2	38.0	38.2	39.3	38.7	37.2	36.9	35.6	36.3	35.5	32.7
20000	36.7	35.4	35.4	34.4	33.1	30.7	32.1	32.4	34.1	34.3	32.8	32.5	31.4	31.6	30.3	27.4
25000	31.0	29.8	29.8	28.5	27.2	25.2	25.8	26.5	29.3	31.3	28.8	28.4	27.6	27.1	25.8	22.1

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

KC-97L AIRCRAFT

R436J-598 AND J47-GE-25A

GROUND RUNUP

OPERATION:

MAY POWER NO JETS, KC-97L

SINGLE RECIP ENGINE

GROUND RUNUP

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 73 %

DELTA M = -6.8 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-081-001

RUN 03

AIRCRAFT CODE 081

OPERATION CODE J0437

PROFILE VERSION A

14 MAY 76

PAGE J3

	P=PHLT											I=ALT										
	A=AL																					
	20	30	40	50	60	70	80	90	100	110	120	20	30	40	50	60	70	80	90	100	110	120
ANGLE																						
0																						
10																						
20																						
30																						
40																						
50																						
60																						
70																						
80																						
90																						
100																						
110																						
120																						
130																						
140																						
150																						
>160																						
>170																						
>180																						

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																	
1/3 OCTAVE BAND																	
DISTANCE = 250 FEET																	
NOISE SOURCE/SUBJECT:																	
KC-97L AIRCRAFT																	
R4360-598 AND J47-GE-25A																	
GROUND RUNUP																	
OPERATION:																	
RECIPS AND JETS IDLE																	
ALL FOUR RECIPS AND 80TH																	
JETS 900 RPM (RECIP)																	
40% RPM(JET) GROUND RUNUP																	
TEMP = 59 F																	
BAR PRESS = 29.92 IN HG																	
REL HUMID = 70 %																	
DELTA N = 3.0 DB																	
AIRCRAFT CODE 081																	
OPERATION CODE 00635																	
PROFILE VERSION A																	
14 MAY 76																	
PAGE C4																	
IDENTIFICATION:																	
OMEGA 8.2																	
TEST 74-081-001																	
RUN 04																	
METEOROLOGY:																	
ANGLE (DEGREES)																	
BAND CENTER																	
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 >170 >180
50	80	80	80	79	79	81	80	78	81	80	78	79	77	78	70	75	72 62 52
63	78	82	79	79	80	81	88	82	83	81	82	80	89	81	77	76	70 60 50
80	85	87	88	88	88	87	89	88	87	90	88	86	87	84	83	80	76 66 56
100	90	92	94	94	93	92	94	93	90	91	92	91	93	92	88	87	84 74 64
125	83	85	85	85	83	84	85	85	85	83	84	84	85	85	83	82	78 68 58
160	81	83	83	82	81	81	80	82	81	78	78	80	79	78	78	73	63 53
200	73	79	78	77	75	74	75	75	75	72	72	73	75	75	73	73	68 58 48
250	76	78	78	75	71	71	71	72	72	70	68	69	71	72	71	71	66 56 46
315	74	75	75	71	69	69	68	67	67	65	64	64	67	70	69	69	65 55 45
400	75	75	76	71	69	69	67	66	64	64	64	63	66	68	68	68	64 54 44
500	73	73	75	71	68	68	67	64	65	64	63	64	65	65	68	67	61 51 41
630	73	73	76	72	69	68	68	65	66	64	65	66	65	62	62	63	56 46 36
800	76	76	80	74	71	70	69	66	67	65	64	68	67	64	63	62	56 46 36
1000	78	76	82	75	73	71	70	69	69	65	74	73	66	64	62	61	55 45 35
1250	76	75	81	74	73	71	71	68	68	65	68	68	65	63	62	60	54 44 34
1600	79	79	84	76	73	73	73	70	70	66	68	68	65	63	62	60	54 44 34
2000	81	81	88	81	83	83	81	81	78	75	71	73	68	67	66	63	56 46 36
2500	86	87	94	87	89	89	88	84	84	79	72	72	70	69	69	66	60 50 40
3150	83	83	91	85	88	81	81	81	78	72	69	71	68	67	68	65	60 50 40
4000	80	79	85	78	80	80	76	75	73	71	68	72	66	65	63	60	54 44 34
5000	76	76	81	74	78	76	73	71	70	66	63	68	63	62	61	57	51 41 31
6300	72	72	77	71	72	71	71	69	69	62	59	63	59	57	56	53	48 38 28
8000	71	70	75	70	72	70	70	67	66	59	55	58	55	53	53	50	43 33 23
10000	69	68	73	67	69	67	67	65	64	58	50	52	49	47	47	45	37 27 17
OVERALL	95	96	100	97	97	96	98	96	94	95	95	94	96	94	91	90	86 76 66

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(KC-97L AIRCRAFT)																			
(R4360-598 AND J47-6E-25A)																			
(GROUND RUNUP)																			
(OPERATION:)																			
(RECIPS AND JETS IDLE)																			
(ALL FOUR RECIPS AND BOTH)																			
(JETS 900 RPM (RECIP))																			
(40% RPM(JET) GROUND RUNUP)																			
(METEOROLOGY:)																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = 0.0 DB)																			
IDENTIFICATION:																			
(OMEGA 8.2)																			
(TEST 74-081-001)																			
(RUN 04)																			
(AIRCRAFT CODE 081)																			
(OPERATION CODE 00035)																			
(PROFILE VERSION A)																			
(14 MAY 76)																			
(PAGE 04)																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180																			
200	109.0	109.9	115.5	109.2	120.5	110.0	109.1	106.5	105.7	102.3	99.0	100.0	99.9	98.7	96.6	94.9	90.5	79.7	68.2
250	106.7	107.7	113.3	106.9	108.3	107.0	106.0	104.3	103.4	100.1	97.7	97.8	97.8	96.5	94.5	92.8	88.3	77.3	65.8
315	104.5	105.4	111.0	104.6	105.9	105.5	104.5	102.0	101.1	97.8	95.5	95.6	95.6	94.4	92.3	90.6	86.1	74.9	63.3
400	102.1	103.0	104.6	102.3	103.5	103.1	102.2	99.6	98.8	95.5	93.2	93.3	93.4	92.2	90.0	88.3	83.9	72.4	60.7
500	99.6	100.5	106.1	99.8	101.0	100.6	99.7	97.1	96.3	93.0	90.9	91.0	91.1	89.9	87.7	86.0	81.4	69.9	58.0
630	97.0	97.9	103.6	97.2	98.4	98.0	97.1	94.5	93.7	90.4	88.5	88.6	88.7	87.5	85.3	83.5	78.8	67.3	55.1
800	94.2	95.2	100.8	94.5	95.7	95.3	94.4	91.8	90.9	87.7	85.9	85.9	86.1	84.9	82.4	80.7	76.0	64.4	52.0
1000	91.3	92.3	97.9	91.5	92.7	92.3	91.4	88.8	87.9	84.7	82.9	82.9	83.2	81.8	79.3	77.5	72.7	61.0	47.9
1250	88.1	89.1	94.8	88.4	89.5	89.2	88.2	85.6	84.7	81.5	79.4	79.3	79.7	78.3	75.8	74.0	69.2	57.2	43.4
1500	84.7	85.7	91.3	84.9	86.0	85.7	84.8	82.1	81.3	78.1	75.6	75.5	75.8	74.5	72.0	70.3	65.4	53.0	38.5
2000	81.0	81.9	87.6	81.1	82.2	81.9	81.0	78.3	77.5	74.2	71.5	71.3	71.6	70.3	68.0	66.2	61.1	48.1	31.8
2500	76.8	77.8	83.4	77.0	78.0	77.7	76.8	74.1	73.3	70.0	66.8	66.9	66.9	65.5	63.7	61.5	56.1	42.5	23.4
3150	72.2	73.1	78.8	72.3	73.2	73.0	72.0	69.2	68.4	65.1	61.9	62.0	61.6	60.1	58.7	56.4	50.8	35.9	12.4
4000	66.8	67.8	73.5	66.9	67.8	67.5	66.5	63.7	62.9	59.4	56.6	56.4	55.1	53.6	52.7	50.6	43.9	26.3	1.5
5000	60.9	61.8	67.6	60.9	61.6	61.3	60.3	57.4	56.6	53.0	51.4	50.9	48.4	46.7	45.3	44.5	37.1	12.3	
6300	54.3	55.0	60.9	54.0	54.5	54.3	53.1	50.5	49.5	45.2	45.1	44.5	42.9	39.4	39.4	37.6	27.2		
8000	47.3	47.6	53.8	46.5	46.6	46.2	45.0	42.7	40.7	36.7	39.1	38.4	35.5	32.7	33.3	31.4	17.6		
10000	40.3	40.7	45.8	38.5	36.5	36.0	34.8	32.7	29.9	25.6	31.1	30.4	26.9	24.4	24.5	22.8	8.8		
12500	32.6	32.4	38.1	29.9	25.5	23.5	23.5	19.2	16.0	11.8	20.5	20.1	18.5	14.4	13.7	13.1			
15000	21.4	21.3	26.5	18.2	9.9	8.9	12.9	9.5	2.0	6.9	8.3	6.9	9.9	7.9	3.0	3.5			
20000	10.2	10.3	14.8	6.8			7.8			2.0			1.3	1.5					
25000			1.2				2.7												

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
KC-97L AIRCRAFT																
R4360-598 AND J47-GE-25A																
GROUND RUNUP																
IDENTIFICATION:																
OMEGA 0.2																
TEST 74-001-001																
AIRCRAFT CODE 001																
OPERATION CODE 00635																
PROFILE VERSION A																
14 MAY 76																
PAGE E4																
METEOROLOGICAL DATA																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = 0.0 DB																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)																
200	110.4	111.6	117.2	110.5	111.9	112.8	111.5	108.5	107.9	104.5	101.6	101.6	101.0	99.9	97.7	95.9
250	108.1	109.4	114.9	108.2	109.6	110.6	109.2	106.3	105.7	102.3	99.6	99.4	98.3	97.0	95.5	93.8
315	105.6	107.1	112.6	105.9	107.2	108.3	107.0	104.0	103.4	100.0	97.4	97.2	96.7	95.6	93.3	91.6
400	103.4	104.7	110.3	103.6	104.9	105.9	104.6	101.7	101.0	97.6	95.2	94.9	94.5	93.4	91.0	89.3
500	101.0	102.2	107.8	101.1	102.4	103.4	102.1	99.2	98.6	95.1	92.9	92.6	92.2	91.1	88.7	87.0
630	98.4	99.6	105.2	98.5	99.8	100.8	99.5	96.6	95.9	92.6	90.5	90.2	89.8	88.7	86.3	84.5
800	95.6	96.9	102.5	95.8	97.0	98.0	96.8	93.8	93.2	89.8	87.9	87.5	87.2	86.1	83.5	81.7
1000	92.7	94.0	99.6	92.8	94.1	95.1	93.8	90.9	90.2	86.9	84.8	84.4	84.2	83.0	80.3	78.5
1250	89.5	90.8	96.4	89.7	90.8	91.9	90.7	87.7	87.0	83.7	81.4	80.9	80.8	79.5	76.8	75.0
1600	86.1	87.4	93.0	86.2	87.4	88.5	87.2	84.2	83.6	80.2	77.6	77.1	76.9	75.7	73.1	71.3
2000	82.3	83.6	89.3	82.4	83.6	84.7	83.4	80.4	79.7	76.4	73.4	72.9	72.7	71.5	69.0	67.2
2500	78.2	79.5	85.1	78.3	79.3	80.5	79.2	76.1	75.5	72.1	69.8	68.5	68.0	66.7	64.7	62.5
3150	73.5	74.8	80.5	73.6	74.6	75.7	74.4	71.3	70.7	67.3	65.0	63.6	62.7	61.3	59.7	57.4
4000	67.9	69.1	74.8	67.9	68.8	69.7	68.4	65.4	64.7	61.2	58.2	57.7	56.8	54.6	53.5	51.4
5000	61.8	62.8	68.6	61.6	62.4	63.0	61.8	58.7	58.0	54.3	52.5	51.9	49.8	47.4	46.9	45.1
6300	54.8	55.7	61.6	54.5	55.0	55.4	54.1	51.3	50.4	46.1	43.9	45.2	42.3	39.9	39.8	38.0
8000	47.6	47.9	54.1	46.8	46.9	46.8	45.5	43.1	41.1	37.1	35.5	38.7	35.7	32.9	33.5	31.6
10000	40.3	40.7	45.8	38.5	36.5	36.0	34.8	32.7	29.9	25.6	31.1	30.4	26.9	24.4	24.5	22.8
12500	32.6	32.4	38.1	29.9	25.5	23.5	23.5	19.2	16.0	11.8	20.5	20.1	18.5	14.4	13.7	13.1
16000	21.4	21.3	28.5	18.2	9.9	8.9	12.9	9.5	2.0	6.9	8.3	6.9	9.9	7.3	3.0	3.5
20000	17.2	10.3	14.8	6.8			7.8			2.0			1.3	1.5		
25000			1.2				2.7									

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
KC-97L AIRCRAFT																			
R4160-598 AND J47-GE-25A																			
GROUND RUNUP																			
OPERATIONS:																			
RECIPS AND JETS IDLE																			
ALL FOUR RECIPS AND 80TH																			
JETS 900 RPM (RECIP)																			
40% RPM (JET) GROUND RUNUP																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = 3.0 DB																			
IDENTIFICATIONS:																			
OMEGA 8.7																			
TEST 74-881-881																			
RUN 04																			
AIRCRAFT CODE 881																			
OPERATION CODE 88635																			
PROFILE VERSION A																			
14 MAY 76																			
PAGE F4																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	93.9	94.5	131.1	94.1	96.3	95.0	93.6	91.1	89.9	86.3	83.7	84.2	82.4	81.3	80.2	78.4	73.5	61.5	51.5
250	91.6	92.2	98.9	91.9	94.1	92.8	91.4	89.9	87.7	84.1	81.6	82.0	80.3	79.2	78.1	76.3	71.4	61.4	51.4
315	89.3	93.0	90.6	89.6	91.0	90.5	89.1	86.6	85.4	81.9	79.4	79.8	78.1	77.8	75.9	74.2	69.3	59.3	49.2
410	87.0	87.6	94.2	87.3	83.4	88.1	85.8	84.3	83.1	79.6	77.2	77.5	76.3	74.8	73.7	72.0	67.1	57.1	47.1
500	84.6	85.2	91.5	84.9	86.9	85.7	84.4	81.9	80.7	77.2	75.8	75.2	73.7	72.6	71.4	69.7	64.9	54.9	44.9
630	82.1	82.7	89.2	82.3	84.3	83.2	81.8	79.4	78.2	74.7	72.6	72.7	71.4	70.3	69.8	67.4	62.6	52.6	42.6
800	79.4	80.0	86.6	79.0	81.6	80.5	79.2	76.7	75.5	72.1	70.1	70.2	68.9	67.8	66.5	64.9	60.1	50.1	40.1
1000	76.6	77.2	83.7	76.8	78.7	77.7	76.4	73.9	72.7	69.4	67.5	67.5	66.2	65.0	63.8	62.2	57.5	47.5	37.5
1250	73.7	74.3	80.7	73.8	75.0	74.6	73.3	70.9	69.7	66.4	64.7	64.6	63.3	62.1	60.9	59.4	54.6	44.6	34.6
1600	70.6	71.1	77.5	70.5	72.2	71.4	70.1	67.7	66.5	63.1	61.7	61.5	60.1	58.9	57.8	56.4	51.5	41.5	31.5
2000	67.3	67.7	74.0	67.0	68.6	67.9	66.5	64.2	63.0	59.7	58.6	58.3	56.8	55.6	54.6	53.3	48.3	38.3	28.3
2500	63.7	64.0	70.2	63.3	64.5	63.9	62.6	60.3	59.2	55.9	55.3	55.0	53.2	51.9	51.8	49.8	44.7	34.7	24.7
3150	59.9	60.0	66.0	59.1	60.1	59.6	58.3	56.1	54.9	51.7	51.7	51.4	49.4	47.9	47.1	45.9	40.7	30.7	20.7
4000	55.7	55.7	61.5	54.7	55.2	54.7	53.5	51.4	50.3	47.1	46.0	47.5	45.2	43.6	42.9	41.7	36.4	26.4	16.4
5000	51.3	51.0	56.6	49.9	49.9	49.4	48.2	46.3	45.2	42.1	44.0	43.5	40.9	39.2	38.4	37.3	31.9	21.9	11.9
6300	46.5	46.0	51.3	44.8	44.1	43.5	42.5	40.6	39.8	36.9	39.6	39.2	36.4	34.6	33.8	32.7	27.3	17.3	7.3
8100	41.8	41.2	46.1	39.9	39.4	37.7	37.0	35.3	34.5	32.1	35.3	34.9	32.5	30.8	30.0	29.1	23.8	13.8	3.8
10000	36.8	36.4	40.7	34.9	32.9	32.1	31.7	30.0	29.4	27.6	30.7	30.3	28.6	27.0	26.1	25.3	20.2	10.2	.2
12500	31.5	31.1	35.1	29.9	27.6	26.9	27.0	25.3	24.6	23.5	25.9	25.5	24.7	23.2	22.2	21.4	16.5	6.5	
16000	26.0	25.8	29.3	24.8	22.6	22.0	22.7	21.0	20.1	19.7	21.1	20.8	20.9	19.6	18.3	17.4	12.8	2.8	
20000	23.3	23.6	26.4	22.0	18.1	17.7	18.9	17.3	16.1	16.3	16.9	16.4	17.5	16.2	14.5	13.4	9.1		
25000	14.8	15.7	17.8	15.6	14.2	13.0	15.4	14.0	12.5	13.1	13.3	12.7	14.2	12.9	10.7	9.5	5.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														) OMEGA 8.2			
NOISE SOURCE/SUBJECT:														) TEST 74-381-001			
KC-97L AIRCRAFT														) RUN 04			
R4360-598 AND J47-GE-25A														) AIRCRAFT CODE 081			
GROUND RUNUP														) OPERATION CODE 70635			
(														) PROFILE VERSION A			
(														) 14 MAY 76			
(														) PAGE 64			
(														) METEOROLOGY:			
(														) TEMP = 59 F			
(														) BAR PRESS = 29.92 IN HG			
(														) REL HUMID = 70 %			
(														) DELTA N = 0.0 DB			
(														) ANGLE (DEGREES)			
(														) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180			
(														) 200 250 315 400 500 630 800 1000 1250 1600 2000 3150 4000 5000 6300 8000 10000 12500 16000 20000 25000			
(														) 95.2 93.0 90.7 86.4 85.9 93.4 84.4 81.7 79.6 75.1 72.8 69.4 65.1 61.2 56.8 52.1 47.0 42.0 36.2 31.5 26.0 24.3 14.8			
(														) 102.7 100.5 98.2 95.3 93.4 90.9 83.6 80.2 78.1 75.4 71.8 68.3 64.5 60.4 55.7 50.7 45.3 40.6 35.7 30.0 27.6 24.6 18.1			
(														) 97.6 95.4 93.2 90.3 88.5 86.1 83.9 81.4 78.8 76.0 73.5 69.9 65.9 61.4 56.3 51.0 45.7 40.6 35.7 30.0 27.6 24.6 18.1			
(														) 96.0 93.8 91.5 88.7 86.4 84.2 81.9 79.5 77.0 74.4 71.9 68.3 64.7 60.7 55.4 50.1 44.8 39.5 34.4 29.4 25.3 22.7 17.3			
(														) 83.5 81.4 79.2 76.8 74.6 72.5 70.0 67.5 65.9 63.2 60.4 57.4 54.3 50.8 46.9 41.9 37.3 32.6 27.7 24.0 20.2 17.4 13.4			
(														) 83.5 81.4 79.2 76.8 74.6 72.5 70.0 67.5 65.9 63.2 60.4 57.4 54.3 50.8 46.9 41.9 37.3 32.6 27.7 24.0 20.2 17.4 13.4			
(														) 58.6 55.7 52.7 49.5 45.8 41.9 37.3 32.6 27.7 24.0 20.2 17.4 13.4 9.5 5.5			
(														) 58.6 55.7 52.7 49.5 45.8 41.9 37.3 32.6 27.7 24.0 20.2 17.4 13.4 9.5 5.5			

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECTS

CG-57L AIRCRAFT

PG-56-598 AND J47-GE-25A

GROUND RUNUP

OPERATIONS

RECIPES AND JETS IDLE

ALL FOUR RECIPES AND JETS

JETS 914 JPM (RECIPES)

452 RPM (JETS) GROUND RUNUP

METEOLOGICAL

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 73 %

DELTA W = 0.0 03

IDENTIFICATION

OMEGA 8.2

TEST 76-081-891

RUN 86

AIRCRAFT CG-57L

OPERATION CODE 88488

PROFILE VERSION A

14 SEP 76

PAGE 36

	ANGLE									
	20	30	40	50	60	70	80	90	100	110
8										
10										
20										
30										
40										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										
160										
170										
180										

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)														
1/3 OCTAVE BAND														
DISTANCE = 250 FEET														
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGICAL:) AIRCRAFT CODE 881														
KC-97L AIRCRAFT (MAX POWER WITH JETS)) TEMP = 59 F) OPERATION CODE 8838														
R4360-593 AND J47-Ge-25A (ALL FOUR RECIPS AND BOTH)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A														
GROUND RUNUP (JETS)) REL HUMID = 78 %) 14 MAY 76														
GROUND RUNUP (GROUND RUNUP)) DELTA M = 3.0 CS) PAGE 05														
BAND CENTER														
FREQ (HZ)														
ANGLE (DEGREES)														
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180														
50	63	68	67	66	65	64	63	62	61	60	59	58	57	56
63	109	106	103	102	101	100	99	98	97	96	95	94	93	92
76	95	94	92	91	90	89	88	87	86	85	84	83	82	81
89	94	93	92	91	90	89	88	87	86	85	84	83	82	81
102	94	93	92	91	90	89	88	87	86	85	84	83	82	81
115	94	93	92	91	90	89	88	87	86	85	84	83	82	81
128	94	93	92	91	90	89	88	87	86	85	84	83	82	81
141	94	93	92	91	90	89	88	87	86	85	84	83	82	81
154	94	93	92	91	90	89	88	87	86	85	84	83	82	81
167	94	93	92	91	90	89	88	87	86	85	84	83	82	81
180	94	93	92	91	90	89	88	87	86	85	84	83	82	81
193	94	93	92	91	90	89	88	87	86	85	84	83	82	81
206	94	93	92	91	90	89	88	87	86	85	84	83	82	81
219	94	93	92	91	90	89	88	87	86	85	84	83	82	81
232	94	93	92	91	90	89	88	87	86	85	84	83	82	81
245	94	93	92	91	90	89	88	87	86	85	84	83	82	81
258	94	93	92	91	90	89	88	87	86	85	84	83	82	81
271	94	93	92	91	90	89	88	87	86	85	84	83	82	81
284	94	93	92	91	90	89	88	87	86	85	84	83	82	81
297	94	93	92	91	90	89	88	87	86	85	84	83	82	81
310	94	93	92	91	90	89	88	87	86	85	84	83	82	81
323	94	93	92	91	90	89	88	87	86	85	84	83	82	81
336	94	93	92	91	90	89	88	87	86	85	84	83	82	81
349	94	93	92	91	90	89	88	87	86	85	84	83	82	81
362	94	93	92	91	90	89	88	87	86	85	84	83	82	81
375	94	93	92	91	90	89	88	87	86	85	84	83	82	81
388	94	93	92	91	90	89	88	87	86	85	84	83	82	81
401	94	93	92	91	90	89	88	87	86	85	84	83	82	81
414	94	93	92	91	90	89	88	87	86	85	84	83	82	81
427	94	93	92	91	90	89	88	87	86	85	84	83	82	81
440	94	93	92	91	90	89	88	87	86	85	84	83	82	81
453	94	93	92	91	90	89	88	87	86	85	84	83	82	81
466	94	93	92	91	90	89	88	87	86	85	84	83	82	81
479	94	93	92	91	90	89	88	87	86	85	84	83	82	81
492	94	93	92	91	90	89	88	87	86	85	84	83	82	81
505	94	93	92	91	90	89	88	87	86	85	84	83	82	81
518	94	93	92	91	90	89	88	87	86	85	84	83	82	81
531	94	93	92	91	90	89	88	87	86	85	84	83	82	81
544	94	93	92	91	90	89	88	87	86	85	84	83	82	81
557	94	93	92	91	90	89	88	87	86	85	84	83	82	81
570	94	93	92	91	90	89	88	87	86	85	84	83	82	81
583	94	93	92	91	90	89	88	87	86	85	84	83	82	81
596	94	93	92	91	90	89	88	87	86	85	84	83	82	81
609	94	93	92	91	90	89	88	87	86	85	84	83	82	81
622	94	93	92	91	90	89	88	87	86	85	84	83	82	81
635	94	93	92	91	90	89	88	87	86	85	84	83	82	81
648	94	93	92	91	90	89	88	87	86	85	84	83	82	81
661	94	93	92	91	90	89	88	87	86	85	84	83	82	81
674	94	93	92	91	90	89	88	87	86	85	84	83	82	81
687	94	93	92	91	90	89	88	87	86	85	84	83	82	81
700	94	93	92	91	90	89	88	87	86	85	84	83	82	81
713	94	93	92	91	90	89	88	87	86	85	84	83	82	81
726	94	93	92	91	90	89	88	87	86	85	84	83	82	81
739	94	93	92	91	90	89	88	87	86	85	84	83	82	81
752	94	93	92	91	90	89	88	87	86	85	84	83	82	81
765	94	93	92	91	90	89	88	87	86	85	84	83	82	81
778	94	93	92	91	90	89	88	87	86	85	84	83	82	81
791	94	93	92	91	90	89	88	87	86	85	84	83	82	81
804	94	93	92	91	90	89	88	87	86	85	84	83	82	81
817	94	93	92	91	90	89	88	87	86	85	84	83	82	81
830	94	93	92	91	90	89	88	87	86	85	84	83	82	81
843	94	93	92	91	90	89	88	87	86	85	84	83	82	81
856	94	93	92	91	90	89	88	87	86	85	84	83	82	81
869	94	93	92	91	90	89	88	87	86	85	84	83	82	81
882	94	93	92	91	90	89	88	87	86	85	84	83	82	81
895	94	93	92	91	90	89	88	87	86	85	84	83	82	81
908	94	93	92	91	90	89	88	87	86	85	84	83	82	81
921	94	93	92	91	90	89	88	87	86	85	84	83	82	81
934	94	93	92	91	90	89	88	87	86	85	84	83	82	81
947	94	93	92	91	90	89	88	87	86	85	84	83	82	81
960	94	93	92	91	90	89	88	87	86	85	84	83	82	81
973	94	93	92	91	90	89	88	87	86	85	84	83	82	81
986	94	93	92	91	90	89	88	87	86	85	84	83	82	81
999	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1012	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1025	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1038	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1051	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1064	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1077	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1090	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1103	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1116	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1129	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1142	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1155	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1168	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1181	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1194	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1207	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1220	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1233	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1246	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1259	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1272	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1285	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1298	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1311	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1324	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1337	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1350	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1363	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1376	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1389	94	93	92	91	90	89	88	87	86	85	84	83	82	81
1402	94	93	92	91	90	89	88	87	86	85	84	83	82	81

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS:																			
KC-97L AIRCRAFT:																			
24360-593 AND J47-G-25A																			
GROUND RUNUP																			
OPERATION:																			
MAX POWER WITH JETS																			
ALL FOUR RELIPS AND BOTH																			
JETS																			
GROUND RUNUP																			
METEOROLOGICAL:																			
TEMP = 55 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 76 %																			
DELTA M = 0.8 DB																			
PAGE 05																			
IDENTIFICATIONS:																			
OHEA 8.2																			
TEST 74-881-891																			
RUN 55																			
AIRCRAFT CODE 881																			
OPERATION CODE 88-38																			
PROFILE VERSION A																			
14 MAY 76																			
PAGE 05																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
J 14 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
210	124.5	124.3	124.4	122.4	121.9	122.8	123.1	123.0	125.2	127.3	127.6	129.4	131.9	131.0	133.2	119.1	112.4	105.7	93.8
220	122.2	122.0	122.1	120.2	119.6	120.8	120.8	122.0	125.0	127.1	127.4	129.2	131.7	129.7	129.4	120.1	117.8	113.3	103.6
315	119.9	117.7	117.8	117.2	117.8	117.2	118.1	119.5	123.5	126.6	127.8	129.1	130.9	127.4	127.2	125.9	114.8	108.2	94.6
400	117.6	117.3	117.3	115.4	114.9	115.7	116.1	119.0	118.2	120.4	120.7	122.5	125.0	124.8	123.7	112.7	106.8	99.2	92.4
540	115.1	114.8	114.8	112.9	112.4	113.1	113.6	119.5	115.7	117.9	118.3	120.1	122.6	122.4	121.4	118.4	103.7	96.9	91.8
630	111.1	110.3	110.3	108.3	107.8	108.8	109.5	110.9	112.9	113.1	115.3	117.5	119.7	119.9	118.9	108.1	101.4	94.5	87.5
800	109.9	109.4	109.5	107.5	107.1	107.8	108.2	110.1	110.4	112.5	113.0	114.7	117.2	117.3	116.3	105.6	98.8	92.8	86.7
1330	107.1	106.6	106.6	104.6	104.3	104.3	105.3	107.2	107.4	109.5	110.2	111.9	114.4	114.6	113.5	102.8	96.8	89.1	81.6
1250	104.2	103.8	103.5	101.5	101.2	101.8	102.2	104.1	104.2	106.3	107.5	108.9	111.3	111.6	110.5	99.8	92.9	85.8	78.3
1600	101.2	100.8	100.2	98.2	97.9	98.4	98.6	100.6	100.9	102.8	104.2	105.7	107.8	108.4	107.6	96.5	89.6	82.1	74.9
2030	98.0	97.6	96.9	94.6	94.2	94.7	95.1	97.1	97.3	99.1	100.5	102.3	104.4	105.2	104.4	92.8	85.7	78.7	71.6
2500	94.1	93.7	93.3	91.0	90.1	90.7	91.0	93.0	93.4	95.3	96.6	98.5	100.5	101.4	100.5	88.7	81.7	74.7	67.6
3150	89.6	89.3	88.7	86.9	85.6	86.4	86.7	88.7	89.1	91.6	92.2	94.4	96.4	97.3	96.1	84.4	77.4	70.4	63.3
4300	85.1	84.5	84.1	82.3	80.9	81.7	82.0	84.0	84.3	86.9	87.6	89.8	91.7	92.7	91.2	79.6	72.6	65.7	58.4
5000	80.2	79.6	79.2	77.5	76.0	76.7	77.0	79.0	79.5	82.0	82.6	84.9	86.7	87.9	85.9	75.0	68.0	61.0	53.1
6300	75.2	74.5	74.1	72.4	70.8	71.3	71.2	73.6	73.9	75.4	75.7	78.0	80.0	81.4	80.8	70.0	63.0	56.0	49.2
8000	71.2	70.5	70.1	68.3	66.6	66.2	66.2	68.6	68.3	70.2	70.2	72.6	74.6	75.9	77.8	65.9	58.5	50.7	42.1
11000	67.0	66.2	65.8	63.9	62.3	61.5	61.3	63.9	64.5	65.4	67.9	70.3	72.4	74.8	73.8	61.7	54.8	45.6	36.0
12500	62.4	61.6	61.1	59.1	57.4	56.5	55.8	58.5	59.4	60.1	62.8	65.1	67.7	70.4	68.7	57.8	48.8	39.8	29.7
16000	57.4	56.5	56.0	53.9	52.2	51.3	50.8	52.9	53.0	54.4	56.8	59.3	62.8	65.7	64.2	52.8	43.1	33.8	19.6
20000	51.6	50.9	50.2	48.0	45.9	44.4	43.2	46.7	47.9	48.8	51.2	54.2	57.1	60.4	59.4	46.1	36.8	23.1	14.4
25000	45.1	44.3	43.4	41.1	38.7	36.9	35.6	39.3	40.5	42.0	44.8	47.5	51.0	54.6	54.1	39.1	28.6	18.1	10.2

SPI DATA WERE EXTRAPOLATED FOR THIS PAGE

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECTS:																				
AC-97L AIRCRAFT																				
K436C-599 AND J47-GE-25A																				
GROUND RUNUP																				
OPERATIONS:																				
MAX POWER WITH JETS																				
ALL FOUR RECIPS AND BOTH																				
JETS																				
GROUND RUNUP																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 73 %																				
DELTA M = 3.0 DB																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190																				
250	125.9	125.7	126.0	123.7	123.7	123.6	123.1	126.0	126.3	126.0	126.3	128.0	130.3	131.9	131.6	136.2	119.1	112.4	105.7	99.8
250	123.4	123.4	123.7	121.5	121.4	121.4	121.3	120.0	121.8	121.8	121.8	126.5	127.7	129.7	129.4	128.1	117.0	110.3	103.6	96.0
315	121.3	121.1	121.4	119.1	119.0	118.9	118.5	121.5	121.5	121.7	124.2	124.3	125.4	127.4	127.4	125.9	114.8	108.2	101.4	94.6
400	119.0	118.7	118.9	116.7	116.6	116.5	116.1	119.1	119.3	121.8	121.9	123.1	125.0	125.0	123.7	112.7	106.8	99.2	92.4	
500	116.5	116.2	116.4	114.2	114.2	114.2	113.9	116.5	116.6	119.3	119.5	120.6	122.6	122.6	121.4	110.4	103.7	96.9	90.8	
630	114.0	113.5	113.8	111.6	111.6	111.6	111.3	113.9	114.2	116.7	116.9	118.3	120.8	119.9	118.9	108.1	101.4	94.5	87.5	
800	111.3	110.8	111.1	108.8	109.9	108.6	108.2	111.1	111.1	113.9	114.2	115.2	117.2	117.3	116.3	105.6	98.8	92.0	84.7	
1000	108.5	108.0	108.2	105.9	106.1	105.7	105.3	108.2	108.5	111.3	111.4	112.4	114.4	114.6	113.5	102.8	96.0	89.1	81.6	
1250	105.6	105.2	105.1	102.8	103.0	102.6	102.2	105.1	105.3	107.8	108.7	109.4	111.3	111.5	110.5	99.8	92.9	85.8	78.3	
1500	102.6	102.2	101.8	99.5	99.6	99.2	98.8	101.8	102.0	104.5	105.4	106.2	108.0	108.4	107.6	96.5	89.6	82.1	74.9	
2000	99.5	99.0	98.5	95.9	96.0	95.5	95.1	98.1	98.4	100.5	101.8	102.8	104.4	104.4	103.4	92.8	85.7	78.7	71.6	
2500	96.6	96.1	95.6	93.3	93.3	92.9	92.5	95.5	95.8	98.5	99.1	100.5	102.5	102.5	101.4	90.7	83.7	76.7	69.6	
3150	91.2	90.7	90.3	88.2	87.3	87.2	86.7	89.6	89.6	92.1	93.4	94.9	96.4	96.4	95.4	84.4	77.4	70.4	63.3	
4000	86.2	85.6	85.4	83.4	82.4	82.4	82.0	84.8	85.2	87.3	88.5	90.2	91.7	91.7	90.8	79.8	72.8	65.7	58.4	
5000	81.1	80.4	80.2	78.2	77.0	77.2	77.0	79.6	80.0	81.7	83.3	85.2	86.7	86.7	85.9	75.0	68.0	60.7	53.1	
6300	75.7	75.0	74.8	72.9	71.5	71.6	71.5	74.0	74.4	75.9	77.7	79.8	81.4	81.4	80.8	70.0	62.8	55.4	47.2	
8000	71.5	70.0	70.4	68.5	67.0	67.0	66.2	69.0	69.5	70.5	72.9	74.9	76.9	77.9	77.9	65.9	58.5	50.7	42.1	
10000	67.6	66.2	65.8	63.9	62.3	61.5	61.3	63.9	64.5	65.4	67.9	70.3	72.4	72.4	71.4	61.7	54.8	45.6	36.6	
12500	62.4	61.6	61.1	59.1	57.4	56.5	55.8	58.5	59.4	60.1	62.8	65.1	67.7	67.7	66.4	57.8	49.8	40.8	28.7	
16000	57.4	56.5	56.0	53.9	52.2	51.0	50.8	52.9	54.0	54.4	58.0	59.9	62.8	62.8	61.7	52.0	43.1	33.8	19.5	
20000	51.6	50.9	50.2	48.0	45.9	44.4	43.2	46.7	47.9	48.8	53.2	54.2	57.1	57.1	56.4	46.1	36.8	23.1	10.4	
25000	45.1	44.3	43.4	41.1	38.7	36.9	35.6	39.3	40.9	42.6	48.0	47.9	51.0	51.0	50.6	41.1	31.4	18.1	1.2	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
KC-97L AIRCRAFT																
R4360-598 AND J47-62-25A																
GROUND RUNUP																
OPERATION:																
MAX POWER WITH JETS																
ALL FOUR RECIPS AND 80TH																
JETS																
GROUND RUNUP																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-381-001																
AIRCRAFT CODE 081																
OPERATION CODE 00638																
PROFILE VERSION A																
14 MAY 76																
PAGE F5																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	110.4	109.8	109.0	107.8	106.9	105.8	104.5	103.5	102.5	101.5	100.5	99.5	98.5	97.5	96.5	95.5
250	108.2	107.6	107.0	106.2	105.3	104.3	103.3	102.3	101.3	100.3	99.3	98.3	97.3	96.3	95.3	94.3
315	106.1	105.4	105.0	104.2	103.3	102.3	101.3	100.3	99.3	98.3	97.3	96.3	95.3	94.3	93.3	92.3
400	103.8	103.2	102.9	102.2	101.2	100.2	99.2	98.2	97.2	96.2	95.2	94.2	93.2	92.2	91.2	90.2
500	101.6	101.0	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9
630	99.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
800	96.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
1000	94.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
1250	91.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1500	89.0	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2000	86.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
2500	83.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
3150	79.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
4000	75.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
5000	71.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
6300	67.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
8000	63.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
10000	59.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
12500	54.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
16000	49.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
20000	44.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
25000	39.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
KC-97L AIRCRAFT																
R4360-599 AND J47-GE-25A																
GROUND RUNUP																
OPERATION:																
MAX POWER WITH JETS																
ALL FOUR RECIPS AND BOTH																
JETS																
GROUND RUNUP																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 73 %																
DELTA N = 0.0 DB																
PAGE 65																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-001-001																
RUN 05																
AIRCRAFT CODE 001																
OPERATION CODE 30630																
PROFILE VERSION A																
14 MAY 76																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
ANGLE (DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
> 100	> 170	> 160	> 150	> 140	> 130	> 120	> 110	> 100	> 90	> 80	> 70	> 60	> 50	> 40	> 30	> 20
210	111.6	111.2	111.4	109.1	108.7	108.9	108.5	111.5	111.6	113.5	114.1	115.8	117.2	117.4	115.6	114.2
250	109.6	109.0	109.3	107.0	106.5	106.7	106.2	109.3	109.4	111.3	111.9	113.6	115.1	115.3	113.5	102.1
315	107.5	106.8	107.1	104.7	104.3	104.4	104.0	107.0	107.1	109.0	109.7	111.4	112.9	113.1	111.4	100.8
400	105.3	104.6	104.8	102.5	102.0	102.1	101.6	104.6	104.7	106.6	107.4	109.1	110.6	111.0	109.3	97.8
510	103.0	102.3	102.5	100.2	99.7	99.7	99.2	102.3	102.4	104.3	105.1	106.8	108.3	108.7	107.0	95.6
630	100.6	99.9	100.1	97.8	97.2	97.2	96.7	99.9	100.0	101.8	102.7	104.4	105.9	106.4	104.7	93.3
800	98.2	97.5	97.7	95.3	94.7	94.7	94.2	97.3	97.5	99.2	100.2	102.0	103.4	104.0	102.3	90.9
1000	95.7	95.0	95.2	92.8	92.2	92.0	91.5	94.7	94.8	96.5	97.6	99.4	100.9	101.5	99.7	88.5
1250	93.1	92.4	92.5	90.2	89.5	89.3	88.7	91.9	92.1	93.7	94.9	96.8	98.2	98.9	97.0	85.8
1500	90.4	89.7	89.8	87.4	86.7	86.4	85.8	89.1	89.3	90.7	92.1	94.1	95.4	96.2	94.2	83.1
2000	87.6	86.9	87.0	84.6	83.8	83.5	82.8	86.1	86.3	87.6	89.1	91.2	92.4	93.3	91.2	80.3
2500	84.5	83.7	83.8	81.5	80.6	80.2	79.5	82.9	83.2	84.3	86.0	88.1	89.3	90.2	87.9	77.2
3150	81.6	80.3	80.4	78.2	77.2	76.7	76.0	79.5	79.8	80.6	82.6	84.7	85.9	86.8	84.2	73.8
4300	77.6	76.2	76.4	74.2	73.0	72.7	72.3	75.7	75.9	76.7	78.7	81.0	82.1	83.1	80.2	70.1
5000	72.5	71.7	71.9	69.8	68.5	68.4	68.1	71.4	71.5	72.2	74.5	76.8	78.0	78.9	75.9	66.0
6300	67.8	66.9	67.1	65.1	63.6	63.7	63.5	66.7	66.9	67.4	69.8	72.3	73.6	74.5	71.4	61.7
8000	63.6	62.8	62.9	60.9	59.2	59.2	59.1	62.1	62.3	62.7	65.2	67.9	69.3	70.5	67.6	57.8
10000	59.2	58.4	58.3	56.4	54.5	54.4	54.3	57.2	57.5	57.6	60.2	63.1	64.7	66.3	63.6	53.6
12500	54.7	53.9	53.7	51.8	49.9	49.6	49.2	52.1	52.6	52.5	55.1	58.0	59.8	61.7	59.3	49.1
15000	49.9	49.1	48.8	46.9	45.0	44.3	43.8	46.6	47.2	47.2	49.7	52.5	54.0	56.8	54.9	44.3
20000	44.7	43.9	43.5	41.5	39.8	38.9	38.0	40.7	41.3	41.4	44.3	46.7	49.0	51.6	50.3	39.3
25000	39.1	38.4	37.8	35.7	34.3	32.9	32.0	34.5	35.6	35.6	38.1	40.7	43.3	46.2	45.6	34.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
) OMEGA 8.2
) TEST 74-081-001
) RUN 05
) AIRCRAFT CODE 081
) OPERATION CODE 00639
) PROFILE VERSION A
) 14 MAY 76
) PAGE J5

NOISE SOURCE/SUBJECT:
) KC-97L AIRCRAFT
) MAX POWER WITH JEYS
) ALL FOUR RECIPS AND BOTH
) JEYS
) GROUND RUNUP

METEOROLOGY:
) TEMP = 59 F
) BAR PRESS = 29.92 IN HG
) REL HUMID = 70 %
) DELTA N = 3.0 DB

OPERATION:
) P=PHLT
) A=AL
) T=ALT

ANGLE IN DEGREES	40	50	60	70	80	90	100	110	120	130	140
NOISE LEVEL IN PNDB OR DBA											
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

NOISE PRODUCED ON THE GROUND BY

C-116 **AIRCRAFT**

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 507
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING

PAGE

TAKEOFF 2800 RPM, 60 IN HG	126-134
CRUISE 2000 RPM, 32 IN HG	135-143
APPROACH 2400 RPM, 27 IN HG	144-152

FOR EACH POWER SETTING. THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

27 FEB 76

AMERICAN AIR FORCE MEDICAL RESEARCH LABORATORY

[illegible]

F R E Q U E N C Y	50	60	70	80	90	100	MEAN	SD
50	79.4	
63	82.9	
80	72.8	
100	80.4	
125	97.6	
160	93.4	
200	86.4	
250	94.3	
315	89.2	
400	86.4	
500	87.1	
630	84.5	
800	84.1	
1000	81.6	
1250	80.7	
1600	80.6	
2000	81.3	
2500	79.7	
3150	77.9	
4000	74.5	
5000	68.9	
6300	63.0	
8000	56.8	
10000	49.4	

C-118 TAKEOFF POWER 2800 RPM 60 IN HG

AIRSPEED = 140 KNOTS TEMP = 59 F PNLT = 109.0 PNDB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 107.2 PNDB

NO. OF RECORDS = 1 IDENT: 6.6-507-103-270276 ALT = 95.8 DBA

AL = 94.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB):																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 507	
C-118																									OPS CODE: 103	
2800 RPM																									REL HUMID = 70 %	
AIRSPEED = 140 KNOTS																									27 FEB 76	
DELTA N = 0.0 DB																									PAGE M1	
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	93	97	87	95	112	108	103	109	104	101	102	99	99	97	96	97	98	97	96	95	90	87	86	85		
250	91	95	85	93	110	106	101	107	102	99	100	97	97	95	94	94	96	95	94	92	88	85	83	82		
315	89	93	83	90	108	104	99	105	100	97	98	95	95	93	92	92	93	92	92	90	85	82	79	78		
400	87	91	81	88	106	102	97	103	97	95	96	93	93	90	90	90	91	90	89	87	82	79	76	74		
500	85	89	79	86	104	100	95	100	95	93	93	91	91	88	88	88	89	88	87	84	79	75	72	69		
630	83	87	77	84	102	97	93	98	93	91	91	89	89	86	85	85	86	85	84	81	76	72	68	63		
800	81	85	75	82	100	95	90	96	91	89	89	87	86	84	83	83	84	83	81	78	73	68	63	57		
1000	79	83	73	80	98	93	88	94	89	86	87	85	84	82	81	81	81	80	78	75	69	63	57	49		
1250	77	81	71	78	96	91	86	92	87	84	85	82	82	79	78	78	79	77	74	71	65	58	50	48		
1600	75	79	69	76	93	89	84	90	85	82	83	80	79	77	76	75	76	73	71	66	60	52	42	38		
2000	73	77	67	74	91	87	82	88	83	80	80	78	77	74	73	72	72	70	66	61	54	44	32	16		
2500	71	75	65	72	89	85	80	86	81	78	78	75	74	71	70	69	69	67	62	55	47	36	21	0		
3150	69	73	63	70	87	83	78	84	78	75	76	73	72	68	67	65	65	61	56	48	39	25	7			
4000	67	71	60	68	85	81	76	81	76	73	73	70	69	65	63	61	60	56	50	40	30	13				
5000	65	69	58	66	83	78	73	79	73	70	70	67	65	62	59	57	55	50	42	30	19					
6300	63	66	56	64	81	76	71	76	71	67	67	64	62	58	55	52	49	42	33	18	5					
8000	61	64	54	61	78	74	68	74	68	64	64	60	58	53	50	46	42	34	22	4						
10000	59	62	52	59	76	71	66	71	65	61	61	56	54	48	44	39	34	24	9							
12500	57	60	50	57	74	69	63	68	62	58	57	52	49	43	37	31	24	11								
16000	54	58	47	54	71	66	60	65	59	54	52	47	43	36	29	21	12									
20000	52	55	45	52	68	63	57	61	55	49	47	41	36	28	20											
25000	50	53	42	49	65	60	53	58	50	44	41	34	28	18	8											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000
C-118																						
TAKEOFF POWER																						
60 IN HG																						
AIRSPEED = 140 KNOTS																						
TEMP = 59 F REL HUMID = 70 %																						
DELTA N = 0.1 DB																						
NO. OF RECORDS: 1																						
IDENT: 6.6-507-103-270276-A																						
S																						
L																						
A																						
N																						
T																						
D																						
I																						
S																						
T																						
A																						
N																						
C																						
E																						
I																						
N																						
F																						
E																						
T																						
10000																						
12500																						
16000																						
20000																						
25000																						

NOISE LEVEL IN DB

50 60 70 80 90 100 110 120 130

TABLE 1 SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATIONS:	TAKEOFF POWER	60 IN MG	TEMP	METEOROLOGICAL	REL HUMIDITY	DELTA W	0.0 DB	IDENTIFICATION:
C-118	2000 RPM	2000 RPM	60 IN MG	TEMP		REL HUMIDITY			OMEGA 6.6
	AIR SPEED = 140 KNOTS								A/C CODE: 987
									OPS CODE: 103
									PROFILE TERRA
									27 FEB 76
									PAGE 01
SLANT DISTANCE (FEET)	AL (DB)	ALT ⁰⁰ (DB)	PWL (PNDB)	PAL ⁰⁰ (PNDB)	SEL (DB)	SELT ⁰⁰ (DB)	EPML ⁰⁰ (EPNDB)		
238	184.6	136.1	110.1	119.0	185.0	137.6	111.8		
250	182.3	134.0	115.5	117.6	184.7	136.3	109.8		
315	179.1	131.9	113.7	115.4	183.6	135.1	108.6		
400	98.8	99.7	111.4	113.2	182.4	134.0	107.3		
500	95.7	97.5	109.1	112.0	181.2	132.7	106.0		
630	93.4	95.1	106.5	109.3	179.8	131.4	104.4		
800	91.3	92.7	103.8	105.6	178.4	129.9	102.7		
1000	88.4	90.2	101.6	102.7	176.9	128.4	100.9		
1250	85.8	87.5	97.9	99.6	175.2	126.8	98.8		
1600	83.8	84.8	94.6	96.3	173.4	125.0	96.4		
2000	81.1	81.9	91.2	92.9	171.6	123.1	94.1		
2500	77.8	78.7	87.6	89.4	169.8	121.3	91.5		
3150	73.6	75.3	83.5	85.3	167.8	119.5	88.6		
4000	69.8	71.2	79.8	81.4	166.2	117.8	85.6		
5000	65.6	66.7	74.1	75.2	164.6	116.2	82.4		
6300	61.2	61.9	69.1	69.8	162.7	114.4	78.8		
8000	57.3	57.6	65.1	65.4	160.7	112.7	74.7		
10000	53.1	53.1	60.7	60.7	158.6	110.6	69.1		
12500	48.7	48.7	56.8	56.8	156.1	108.1	65.3		
16000	43.9	43.9	50.8	50.8	153.3	105.3	61.1		
20000	38.8	38.8	44.7	44.7	150.2	102.2	56.8		
25000	33.4	33.4	37.9	37.9	146.9	98.9	52.2		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SHOOTED TONE CORRECTION FUNCTION.

	C-118	TAKEOFF POWER	60 IN HG	2800 RPM	2000 RPM	60 IN HG	TAKEOFF POWER
200	(((((((
250	(((((((
315	(((((((
400	(((((((
500	(((((((
S 630	(((((((
L 800	(((((((
A 1000	(((((((
N 1250	(((((((
T 1600	(((((((
O 2000	(((((((
I 2500	(((((((
S 3150	(((((((
T 4000	(((((((
A 5000	(((((((
N 6300	(((((((
C 8000	(((((((
E 10000	(((((((
I 12500	(((((((
N 16000	(((((((
F 20000	(((((((
E 25000	(((((((

200	(	C-118	TAKEOFF POWER	ST	E
250	(	2800 RPM	60 IN HG	.	ST E
315	(	AIRSPEED = 140 KNOTS		.	ST E
400	(	TEMP = 59 F	REL HUMID = 70 %	.	ST E
500	(	DELTA N = 0.0 DB		.	ST E
630	(	NO. OF RECORDS: 1		.	ST E
800	(	IDENT: 6.6-507-103-270276-A		.	ST E
1000	(			.	ST E
1250	(			.	ST E
1600	(			.	ST E
2000	(			.	ST E
2500	(			.	ST E
3150	(			.	ST E
4000	(			.	ST E
5000	(			.	ST E
6300	(			.	ST E
8000	(			.	ST E
10000	(			.	ST E
12500	(			.	ST E
16000	(			.	ST E
20000	(			.	ST E
25000	(			.	ST E

	20	30	40	50	60	70	80	90	MEAN	SD
F 50	77.0	
R 63	65.0	
E 80	65.0	
Q 100	71.0	
U 125	77.0	
E 160	83.0	
Q 200	81.0	
U 250	75.0	
E 315	73.0	
Q 400	76.0	
U 500	73.0	
E 630	72.0	
Q 800	71.0	
U 1000	69.0	
E 1250	68.0	
Q 1600	68.0	
U 2000	66.0	
E 2500	64.0	
Q 3150	61.0	
U 4000	56.0	
E 5000	51.0	
Q 6300	46.0	
U 8000	37.0	
E 10000	26.0	

C-118 CRUISE POWER 2000 RPM 32 IN HG
 AIRSPEED = 160 KNOTS TEMP = 59 F PNLT = 93.4 PNOB
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 92.8 PNOB
 NO. OF RECORDS = 1 IDENT: 6.6-507-104-270276 ALT = 81.0 DBA
 AL = 80.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
AIR-TO-GROUND PROPAGATION																								
AIRCRAFT:																								
C-118																								
OMEGA 6.6																								
A/C CODE: 507																								
OPS CODE: 104																								
PROFILE VER: A																								
27 FEB 76																								
PAGE H2																								
DELTA N = 0.0 DB																								
AIRSPEED = 180 KNOTS																								
CRUISE POWER 32 IN HG																								
2000 RPM																								
TEMP = 59 F																								
REL HUMID = 70 %																								
METEOROLOGY:																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)																								
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
91	79	79	85	91	97	95	89	87	90	88	87	86	84	84	84	82	81	79	76	72	70	66	62	
89	77	77	83	89	95	93	87	85	88	86	85	84	82	81	82	80	79	77	74	70	68	63	59	
315	87	75	81	87	93	91	85	83	86	84	83	82	80	79	80	78	77	75	71	67	65	60	55	
400	85	73	79	85	91	89	83	81	84	81	81	80	78	77	76	74	72	69	64	62	56	51		
500	83	71	77	83	89	87	81	79	82	79	78	78	76	75	75	74	72	70	66	62	58	52	46	
630	81	69	75	81	87	85	79	77	80	77	76	75	74	73	73	71	70	67	63	58	55	48	40	
800	79	67	73	79	85	83	77	75	78	75	74	73	71	70	70	69	67	64	60	55	51	43	34	
1000	77	65	71	77	83	81	75	73	76	73	72	71	69	68	68	66	64	61	56	51	46	37	26	
1250	75	63	69	75	81	79	73	71	74	71	70	69	67	66	65	63	61	58	52	47	41	30	17	
1600	73	61	67	73	79	77	71	69	72	69	67	66	64	63	63	60	58	54	47	42	34	22	6	
2000	71	59	65	71	77	75	69	67	69	66	65	64	62	60	60	57	54	50	42	36	27	12		
2500	69	57	63	69	75	73	66	64	67	64	63	61	59	57	56	53	50	45	36	29	18	1		
3150	67	55	61	67	72	70	64	62	65	61	60	58	56	54	53	49	45	39	29	21	8			
4000	65	53	59	64	70	68	62	60	62	59	57	55	53	50	49	45	40	33	21	12	0			
5000	63	51	56	62	68	66	60	57	60	56	54	52	49	46	44	40	34	25	11	0				
6300	61	49	54	60	66	63	57	55	57	53	51	49	45	42	39	34	26	16						
8000	59	46	52	58	63	61	54	52	54	50	49	45	41	37	33	27	18	5						
10000	56	44	50	55	61	58	52	49	51	46	44	40	36	31	26	18	7							
12500	54	42	47	53	58	56	49	46	47	42	39	35	30	24	18	8								
16000	52	40	45	50	56	53	46	42	43	38	34	29	23	16	8									
20000	50	37	42	48	53	49	42	38	39	33	28	23	15	6										
25000	47	35	40	45	49	46	38	34	34	27	22	14	5											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 507	
(C-118)										OPS CODE: 104	
()										PROFILE VER: A	
()										27 FEB 76	
()										PAGE 12	
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											

200	(	C-116	CRUISE POWER	(	A+	X
250	(	2000 RPM	32 IN HG	(
315	(	AIRSPEED = 180 KNOTS		(	A+	*P
400	(	TEMP = 59 F	REL HUMID = 70 %	(	A+	*P
500	(	DELTA N = 0.0 DB		(
630	(	NO. OF RECORDS: 1		(	A+	*P
800	(	IDENT: 6.6-507-104-270276-A		(
1000	(			(	A+	X
1250	((
1600	(			(	A+	*P
2000	((
2500	(			(	A+	*P
3150	((
4000	(			(	A+	X
5000	((
6300	(			(	A+	X
8000	((
10000	(			(	A+	X
12500	((
16000	(			(	A+	X
20000	((
25000	(			(	A+	X

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB) *

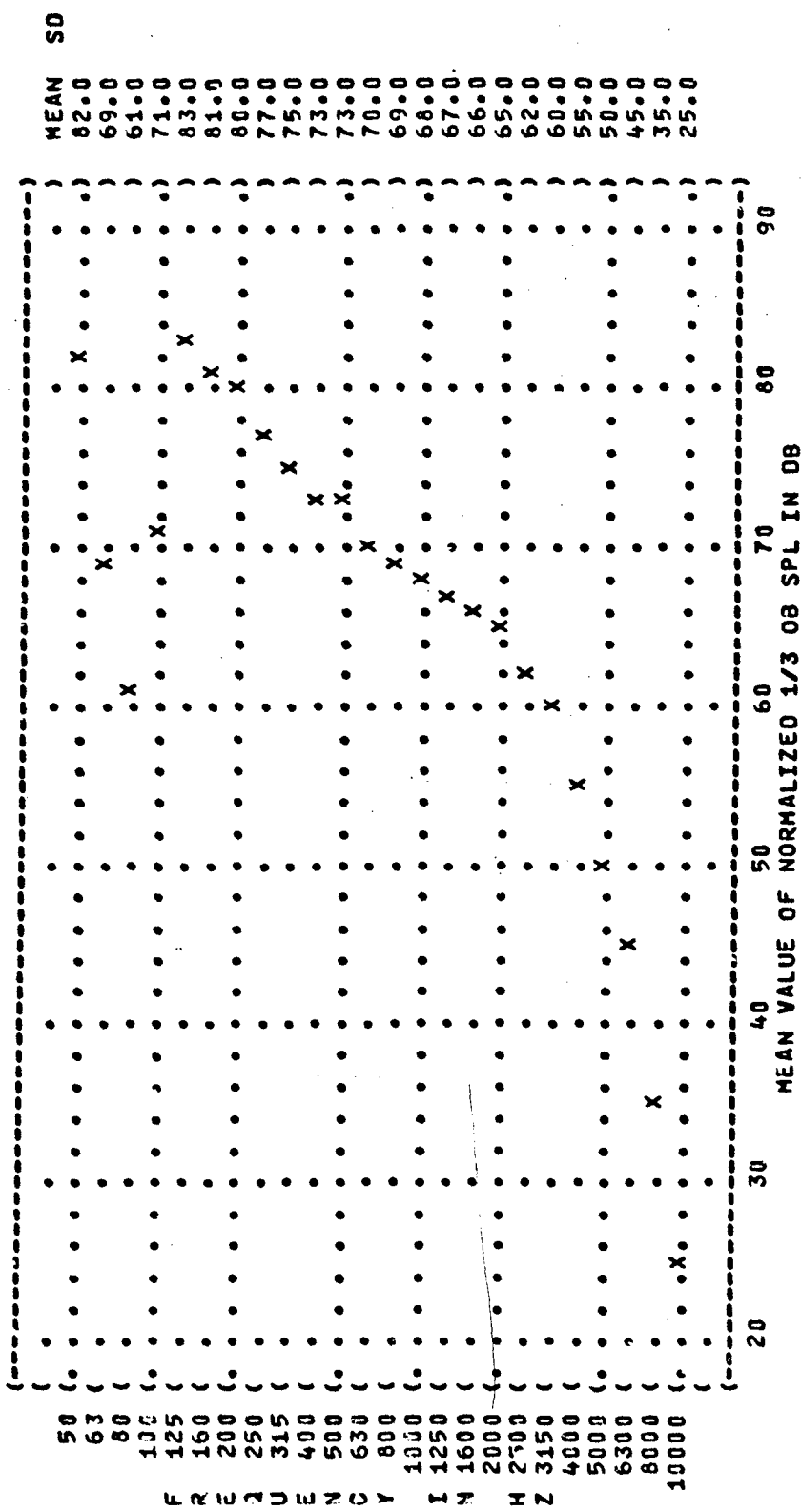
[illegible]

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION										
AIRCRAFT:	OPERATIONS:	CRUISE POWER	32 IN HG	METEOROLOGY:	TEMP	REL HUMID	DELTA N	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
C-118	2000 RPM	2000 RPM	32 IN HG							
	AIR SPEED = 180 KNOTS									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)						
200	90.4	91.1	103.5	104.1				93.2	94.2	96.8
250	88.4	89.0	101.3	101.9				92.1	93.1	95.7
315	86.3	86.9	99.1	99.8				91.0	92.0	94.5
400	84.1	84.7	96.9	97.5				89.8	90.9	93.2
500	81.9	82.5	94.4	95.0				88.6	89.6	91.8
630	79.6	80.2	91.9	92.5				87.3	88.3	90.3
800	77.2	77.9	89.2	89.8				85.9	87.0	88.6
1000	74.8	75.4	86.5	87.2				84.5	85.6	86.9
1250	72.3	72.9	83.8	84.4				83.0	84.0	85.2
1600	69.6	70.3	80.8	81.5				81.3	82.4	83.2
2000	66.9	67.5	77.7	78.4				79.6	80.7	81.1
2500	63.8	64.4	73.9	74.5				77.5	78.5	78.3
3150	60.4	61.1	69.5	70.1				75.1	76.2	74.9
4000	56.7	57.2	64.7	65.2				72.4	73.2	70.8
5000	52.5	52.9	59.6	60.0				69.2	69.9	66.6
6300	48.1	48.3	54.4	54.7				65.8	66.2	62.2
8000	44.2	44.3	50.1	50.2				62.9	63.1	58.6
10000	40.0	40.0	45.1	45.1				59.7	59.7	54.4
12500	35.5	35.5	39.4	39.4				56.2	56.2	49.7
16000	30.6	30.6	32.7	32.7				52.3	52.3	44.1
20000	25.4	25.4	23.8	23.8				48.1	48.1	36.1
25000	19.8	19.8	11.8	11.8				43.5	43.5	25.1

*** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
*** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	CRUISE POWER										ST-E																			
	C-118																													
	2000 RPM										32 IN HG																			
	AIRSPEED = 180 KNOTS																													
	TEMP = 59 F										REL HUMID = 70 %																			
	DELTA N = 0.0 DB																													
	NO. OF RECORDS: 1																													
	IDENT: 6.6-507-104-270276-A																													
200	(.	(.	(.
250	(.	(.	(.
315	(.	(.	(.
400	(.	(.	(.
500	(.	(.	(.
630	(.	(.	(.
800	(.	(.	(.
1000	(.	(.	(.
1250	(.	(.	(.
1600	(.	(.	(.
2000	(.	(.	(.
2500	(.	(.	(.
3150	(.	(.	(.
4000	(.	(.	(.
5000	(.	(.	(.
6300	(.	(.	(.
8000	(.	(.	(.
10000	(.	(.	(.
12500	(.	(.	(.
16000	(.	(.	(.
20000	(.	(.	(.
25000	(.	(.	(.



C-110 APPROACH POWER 2400 RPM 27 IN HG

AIRSPEED = 120 KNOTS TEMP = 59 F PNLT = 93.4 PNOB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 92.3 PNOB

NO. OF RECORDS = 1 IDENT: 6.6-507-105-270276 ALT = 80.6 DBA

AL = 79.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:			
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6			
AIRCRAFT:																									A/C CODE: 507			
C-118																									OPS CODE: 105			
																									PROFILE VER: A			
																									27 FEB 76			
																									PAGE H3			
																									DELTA N = 0.0 DB			
																									AIRSPEED = 120 KNOTS			
																									27 IN HG			
																									2400 RPM			
																									APPROACH POWER			
																									TEMP = 59 F			
																									REL HUMID = 70 %			
																									METEOROLOGY:			

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATIONS:	METEOROLOGY:	SEL	SELTO	EPML	AL	ALT	PWL	PWLT
C-118	APPROACH POWER 2498 RPM	TEMP REL HUMID = 78 %	(DB)	(DB)	(EPNOB)	(DBA)	(DBA)	(PNDB)	(PNDB)
	AIR SPEED = 128 KNOTS	DELTA M = 0.0 DB							
SLANT DISTANCE (FEET)	AL (DBA)	ALT (DBA)	PWL (PNDB)	PWLT (PNDB)	SEL (DB)	SELTO (DB)	EPML (EPNOB)		
200	94.5	95.6	100.8	109.1	98.9	100.3	103.9		
250	92.4	93.6	105.8	107.8	97.8	99.2	102.8		
315	90.3	91.5	103.7	104.9	96.7	98.1	101.6		
400	88.2	89.3	101.5	102.7	95.6	97.0	100.4		
500	86.0	87.2	99.3	100.4	94.4	95.8	99.2		
630	83.9	85.8	97.0	98.1	93.2	94.6	97.9		
800	81.7	82.8	94.6	95.8	92.0	93.4	96.6		
1000	79.4	80.6	92.3	93.4	90.8	92.2	95.2		
1250	77.1	78.3	89.9	91.0	89.5	90.9	93.8		
1600	74.8	76.0	87.4	88.5	88.2	89.6	92.3		
2000	72.4	73.6	84.8	85.9	86.8	88.2	90.7		
3150	70.8	71.1	82.0	83.2	85.3	86.7	89.0		
4000	67.5	68.6	79.2	80.3	83.0	85.2	87.1		
5000	64.9	65.8	76.3	77.2	82.3	83.4	84.9		
6300	62.2	62.9	73.2	73.9	80.6	81.4	82.6		
8000	59.5	60.8	70.1	70.6	78.9	79.4	80.2		
10000	56.7	56.9	66.8	67.8	77.0	77.3	77.6		
12500	53.7	53.7	63.3	63.3	75.1	75.1	74.9		
16000	50.7	50.7	59.6	59.6	73.1	73.1	72.1		
20000	47.5	47.5	55.7	55.7	70.9	70.9	69.2		
25000	44.1	44.1	51.7	51.7	68.5	68.5	66.2		
30000	40.5	40.5	47.3	47.3	65.9	65.9	62.8		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	G-118	APPROACH POWER	A	P
250	(	2400 RPM	27 IN HG	.	.
315	(	AIRSPEED = 120 KNOTS		.	.
400	(	TEMP = 59 F	REL HUMID = 70 %	.	.
500	(	DELTA N = 0.0 DB		.	.
630	(	NO. OF RECORDS: 1		.	.
800	(	IDENT: 6.6-507-105-270276-A		.	.
1000	(			.	.
1250	(			.	.
1600	(			.	.
2000	(			.	.
2500	(			.	.
3150	(			.	.
4000	(			.	.
5000	(			.	.
6300	(			.	.
8000	(			.	.
10000	(			.	.
12500	(			.	.
16000	(			.	.
20000	(			.	.
25000	(			.	.

	C-118 APPROACH POWER 27 IN HG										ST-E
200	(((((((((((
250	(((((((((((
315	(((((((((((
400	(((((((((((
500	(((((((((((
630	(((((((((((
800	(((((((((((
1000	(((((((((((
1250	(((((((((((
1600	(((((((((((
2000	(((((((((((
2500	(((((((((((
3150	(((((((((((
4000	(((((((((((
5000	(((((((((((
6300	(((((((((((
8000	(((((((((((
10000	(((((((((((
12500	(((((((((((
16000	(((((((((((
20000	(((((((((((
25000	(((((((((((

NOISE LEVEL IN DB

110

100

90

80

70

60

50

40

30

AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:											
C-118											
OPERATION:											
APPROACH POWER 27 IN HG											
2400 RPM											
AIRSPEED = 120 KNOTS											
DELTA N = 0.0 DB											
METEOROLOGY:											
TEMP = 59 F											
REL HUMID = 70 %											
A/C CODE: 507											
OPS CODE: 105											
PROFILE VER: A											
27 FEB 76											
PAGE M3											
OMEGA 6.6											
SLANT DISTANCE (FEET)											
AL (DBA)											
ALT** (DBA)											
PNL (PNDB)											
PNLT** (PNDB)											
SEL (DB)											
SELT** (DB)											
EPNL** (EPNDB)											
200	89.5	90.6	102.9	104.0	93.9	95.2	51.8				
250	87.4	88.5	100.8	101.9	92.8	94.1	97.7				
315	85.3	86.4	98.6	99.7	91.7	93.0	96.5				
400	83.2	84.3	96.3	97.5	90.5	91.9	95.2				
500	80.9	82.1	94.0	95.1	89.3	90.7	93.9				
630	78.6	79.8	91.5	92.6	88.0	89.4	92.4				
800	76.3	77.4	88.7	89.9	86.6	88.0	90.6				
1000	73.8	74.9	85.7	86.9	85.2	86.5	88.6				
1250	71.2	72.3	82.6	83.8	83.6	84.9	86.5				
1600	68.5	69.6	79.6	80.7	81.9	83.2	84.5				
2000	65.7	66.8	76.5	77.6	80.1	81.4	82.3				
2500	62.6	63.7	72.9	74.0	78.0	79.3	79.8				
3150	59.2	60.3	68.7	69.9	75.5	76.9	76.6				
4000	55.4	56.3	64.1	65.0	72.8	73.9	72.8				
5000	51.2	51.9	59.2	59.9	69.6	70.4	68.5				
6300	46.8	47.3	53.8	54.3	66.2	66.7	63.9				
8000	42.9	43.2	49.5	49.7	63.3	63.6	60.3				
10000	38.8	38.8	44.6	44.6	60.2	60.2	56.1				
12500	34.4	34.4	38.9	38.9	56.7	56.7	51.4				
16000	29.6	29.6	32.9	32.9	53.0	53.0	46.4				
20000	24.6	24.6	22.4	22.4	49.0	49.0	37.0				
25000	19.4	19.4	8.9	8.9	44.8	44.8	24.4				

[illegible]

NOISE PRODUCED ON THE GROUND BY

C-118 AIRCRAFT

OURING GROUND RUN-UP OPERATIONS

TEST 76-567-001
AIRCRAFT CODE: 507
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 0.2

POWER SETTING

PAGE

IDLE 800 RPM, 13 IN MAP	. . . . .	154-159
GROUND POWER CHECK 2050 RPM, 27.5 IN MAP	. . . . .	160-165
TAKEOFF 2800 RPM, 62 IN MAP	. . . . .	166-171
TAXI 1000 RPM, 24 IN MAP	. . . . .	172-177

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
NE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

21 MAY 76

AIRIGHT-PAGE
MERSON AIR FORCE
BASE, OHIO

[illegible]

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(C-118 AIRCRAFT)																			
(ENG. R-2600-52H)																			
(GROUND RUNUP)																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
230	85.5	84.4	84.5	83.1	83.2	83.3	85.1	84.6	82.2	82.0	83.7	84.0	84.8	85.3	86.1	82.7	79.9	81.1	81.9
250	83.2	82.2	82.3	80.9	80.7	81.0	82.8	82.2	79.8	79.7	81.3	81.7	82.5	82.9	83.8	80.4	77.6	78.8	79.7
315	80.9	79.9	80.1	78.6	78.4	78.7	80.4	79.9	77.4	77.4	78.9	79.3	80.2	80.7	81.5	78.1	75.2	76.4	77.4
410	78.5	77.6	77.8	76.3	76.0	76.3	77.9	77.4	75.0	75.1	76.5	76.9	77.8	78.4	79.1	75.7	72.8	74.0	75.1
500	76.1	75.2	75.4	74.0	73.5	73.8	75.5	75.0	72.5	72.6	74.0	74.4	75.3	76.0	76.6	73.2	70.3	71.5	72.7
630	73.6	72.8	73.0	71.5	70.8	71.1	72.9	72.4	70.0	70.0	71.5	71.9	72.8	73.5	74.1	70.4	67.8	68.8	70.3
800	71.1	70.2	70.4	69.0	68.2	68.3	70.3	69.8	67.3	67.3	68.8	69.2	70.1	71.0	71.4	67.6	65.2	65.9	67.7
1000	68.4	67.5	67.7	66.3	65.4	65.5	67.5	67.0	64.5	64.4	66.1	66.5	67.2	68.3	68.7	64.9	62.4	63.0	65.1
1250	65.2	64.4	64.6	63.1	62.3	62.3	64.0	63.5	61.0	61.2	62.6	63.1	64.1	65.4	65.7	61.7	59.4	59.8	62.1
1500	61.8	60.9	61.1	59.8	59.0	59.0	60.1	59.5	57.1	57.6	58.6	59.2	60.7	62.3	62.7	58.4	55.9	56.3	58.7
2000	58.0	57.3	57.3	56.3	54.9	54.9	55.7	55.1	52.5	53.4	54.2	55.4	57.3	58.8	59.1	54.7	52.2	52.4	55.3
2500	53.5	52.9	52.8	51.8	50.1	50.1	50.3	49.8	47.4	48.7	48.6	50.6	52.7	54.5	54.8	50.1	47.4	47.5	50.7
3150	48.2	47.5	47.3	46.4	44.7	44.6	43.6	43.0	40.9	43.6	42.7	45.3	47.4	49.2	50.0	44.8	41.7	41.9	45.1
4030	42.6	41.4	41.2	40.0	37.8	37.7	36.4	35.4	34.2	36.8	35.8	38.6	41.2	43.2	44.3	38.6	33.9	35.1	38.5
5000	35.8	34.9	34.3	33.4	31.5	30.9	28.3	27.7	26.3	30.5	27.0	32.1	33.6	35.6	37.9	31.6	24.0	25.4	32.0
6300	27.9	26.3	26.5	23.9	21.7	21.1	15.7	15.0	12.6	17.1	13.1	22.1	23.6	27.7	30.5	20.8	10.9	11.9	21.4
8000	19.0	18.1	16.8	14.9	9.9	7.4	3.0	2.3		3.8	10.0		12.8	19.6	23.6	11.8			14.8
10000	9.4	8.2	7.0	5.9									2.0	11.2	13.5	2.8			7.1
12500														2.9	3.3				
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT:																		
(C-116 AIRCRAFT)																		
(ENG. R-2800-52W)																		
(GROUND RUNUP)																		
OPERATION: IDLE, 800 RPM, C-116																		
(SINGLE ENGINE)																		
(EST. FROM C-131 +0.008)																		
METEOROLOGY: TEMP = 59 F																		
(BAR PRESS = 29.92 IN HG)																		
(REL HUMID = 70 %)																		
(DELTA N = -3.0 DB)																		
IDENTIFICATION: OMEGA 8.2																		
(TEST 76-507-001)																		
AIRCRAFT CODE 507																		
OPERATION CODE 02013																		
PROFILE VERSION A																		
(21 MAY 76)																		
PAGE E1																		
DISTANCE (FEET)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	86.7	85.4	85.7	83.1	84.6	84.9	85.1	85.6	82.2	83.7	85.6	85.9	85.3	86.1	83.9	79.9	81.1	81.9
250	84.4	83.2	83.5	80.9	82.3	82.6	82.8	83.4	79.8	81.4	83.3	83.6	84.0	83.8	81.6	77.6	78.8	79.7
315	82.0	80.9	81.2	78.6	79.9	80.2	80.4	81.0	77.4	79.2	80.9	81.2	81.7	80.7	78.2	75.2	76.4	77.4
400	79.7	78.6	78.9	76.3	77.6	77.9	78.6	79.6	76.0	78.5	78.8	79.4	79.4	78.4	76.1	72.8	74.8	75.1
500	77.3	76.3	76.6	74.0	75.1	75.4	75.5	76.1	72.5	74.3	76.0	76.3	76.9	76.0	74.3	70.3	71.5	72.7
630	74.8	73.8	74.1	71.5	72.4	72.7	72.9	73.6	70.0	71.7	73.4	73.8	74.4	73.5	71.6	67.8	68.8	70.3
830	72.3	71.3	71.6	69.0	69.7	69.9	70.3	70.9	67.3	69.0	70.8	71.1	71.6	71.0	68.8	65.2	65.9	67.7
1000	69.5	68.5	68.9	66.3	66.9	67.0	67.5	68.2	64.5	66.2	68.0	68.4	68.8	68.3	66.0	62.4	63.0	65.1
1250	66.4	65.4	65.8	63.1	63.8	63.9	64.0	64.6	61.0	63.0	64.5	65.0	65.6	65.4	62.8	59.4	59.8	62.1
1500	63.0	61.9	62.3	59.8	60.3	60.4	60.1	60.7	57.1	59.3	60.6	61.1	62.3	62.3	59.5	55.9	56.3	58.7
2000	59.1	58.3	58.5	56.3	56.4	56.5	55.7	56.3	52.5	55.1	56.2	57.3	58.9	58.8	55.1	52.2	52.4	55.3
2500	54.7	53.9	54.0	51.8	51.7	51.6	50.3	51.0	47.4	50.5	51.5	52.5	54.3	54.5	51.2	47.4	47.5	50.7
3150	49.3	48.5	48.5	46.4	46.2	46.2	43.8	44.1	41.9	45.3	46.6	47.2	49.0	49.2	46.0	41.7	41.9	45.1
4000	43.6	42.2	42.1	40.0	39.1	38.9	36.4	36.3	34.2	38.2	37.4	40.1	42.4	43.2	39.5	33.9	35.1	38.5
5000	36.5	35.5	35.0	33.4	32.5	31.9	28.3	28.4	26.3	31.5	28.1	33.2	34.5	35.6	32.3	24.8	25.4	32.0
6300	28.3	26.7	27.0	23.9	22.4	21.8	15.7	15.5	12.8	17.8	13.9	22.9	24.2	27.7	21.3	10.9	11.9	21.4
8000	19.2	18.3	17.0	14.9	10.3	7.7	3.0	2.6	4.2	10.4	13.1	19.5	23.6	12.0				14.8
10000	9.4	8.2	7.0	5.9						2.0	11.2	13.5	2.8					7.1
12500											2.9	3.3						
16000																		
20000																		
25000																		

TABLE 1 A-WEIGHTED OVER ALL SOUND LEVEL (DWA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-118 AIRCRAFT																			
ENG. R-2800-52M																			
GROUND RUNUP																			
OPERATION:																			
IDLE, 800 RPM, C-118																			
SINGLE ENGINE																			
EST. FROM C-131 +0.608																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
METEOROLGY:																			
AIRCRAFT CODE 507																			
OPERATION CODE 02013																			
PROFILE VERSION A																			
21 MAY 76																			
PAGE F1																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-507-001																			
RUN 01																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	71.2	71.7	70.7	69.9	68.9	68.3	68.5	67.6	66.7	66.0	67.5	68.9	70.3	71.2	72.0	68.3	65.6	66.4	67.8
250	69.2	68.7	67.8	66.8	66.8	66.8	66.4	65.5	64.6	65.9	65.5	66.8	68.2	69.1	69.9	66.2	63.6	64.4	65.7
315	67.1	66.5	65.7	64.7	64.7	64.7	64.4	63.4	62.5	63.9	63.4	64.8	66.1	67.0	67.8	64.1	61.5	62.3	63.6
400	65.0	64.4	63.5	62.6	62.6	62.6	62.2	61.3	60.3	61.7	61.3	62.6	63.9	64.9	65.6	62.0	59.3	60.2	61.5
500	62.8	62.2	61.4	60.4	60.4	60.4	60.1	59.2	58.2	59.5	59.1	60.4	61.7	62.7	63.4	59.8	57.2	58.0	59.3
630	60.5	60.0	59.1	58.1	58.1	58.1	57.9	57.0	55.9	57.2	56.8	58.2	59.5	60.4	61.1	57.5	54.9	55.6	57.0
800	58.2	57.6	57.8	56.8	55.8	55.7	55.5	54.7	53.5	54.9	54.5	55.9	57.1	58.1	58.8	55.2	52.5	53.2	54.7
1000	55.8	55.2	55.4	54.4	53.3	53.2	53.1	52.3	51.1	52.4	52.1	53.5	54.7	55.7	56.4	52.7	50.0	50.7	52.3
1250	53.1	52.6	52.7	51.8	50.6	50.5	50.3	49.5	48.4	49.7	49.3	50.8	52.1	53.1	53.8	50.0	47.3	48.0	49.8
1600	50.3	49.8	49.9	49.0	47.9	47.7	47.3	46.6	45.0	46.9	46.4	48.1	49.3	50.4	51.1	47.3	44.6	45.2	47.1
2000	47.4	46.9	47.0	46.1	44.9	44.7	44.2	43.5	42.0	43.9	43.3	45.2	46.4	47.6	48.3	44.4	41.7	42.2	44.4
2500	44.1	43.6	43.7	42.9	41.7	41.4	40.7	40.1	39.3	40.6	39.9	41.9	43.2	44.3	45.1	41.1	38.3	38.8	41.2
3150	40.4	40.0	40.1	39.4	38.1	37.8	36.9	36.4	35.7	37.1	36.1	38.3	39.6	40.7	41.5	37.4	34.5	35.1	37.5
4000	36.4	36.0	36.2	35.5	34.3	33.9	32.9	32.4	31.8	33.2	32.1	34.4	35.6	36.8	37.7	33.4	30.4	31.0	33.5
5000	32.1	31.7	32.1	31.4	30.2	29.8	28.7	28.2	27.0	29.1	27.9	30.2	31.4	32.5	33.4	29.1	26.0	26.7	29.1
6300	27.6	27.3	27.7	27.0	25.8	25.4	24.3	23.9	23.2	24.6	23.4	25.6	26.9	28.0	28.9	24.7	21.5	22.2	24.5
8000	23.8	23.5	23.7	23.0	21.8	21.3	20.4	20.0	19.2	20.5	19.6	21.8	23.0	24.2	25.2	20.9	17.8	18.6	21.0
10000	19.9	19.5	19.5	18.8	17.3	17.0	16.4	15.1	15.1	16.1	15.5	17.6	18.8	20.2	21.2	17.0	14.0	14.8	17.2
12500	15.7	15.3	15.1	14.4	12.7	12.6	12.5	12.1	10.8	11.6	11.5	13.3	14.4	16.3	16.9	12.9	10.0	10.9	13.2
16000	11.4	11.0	10.6	9.8	8.2	8.2	8.0	8.3	6.7	7.1	7.6	9.0	10.3	11.6	12.4	8.6	5.9	6.9	9.0
21000	8.9	8.3	8.1	7.1	5.1	5.0	4.9	4.8	2.7	2.9	4.0	4.7	5.6	7.0	7.7	4.2	1.8	2.9	4.5
25000	2.5	1.7	1.7	1.6	.1	.1	2.2	1.6	.5	.5	.7	1.3	2.4	2.8	2.8				

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(C-118 AIRCRAFT)																			
(ENG. R-2800-52M)																			
(GROUND RUNUP)																			
OPERATIONS:																			
(IDLE, 800 RPM, C-118)																			
(SINGLE ENGINE)																			
(EST. FROM C-131 +0.008)																			
METEOROLOGY:																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA M = -3.8 DB)																			
IDENTIFICATION:																			
(OMEGA 8.2)																			
(TEST 76-507-001)																			
(RUN 81)																			
(AIRCRAFT CODE 507)																			
(OPERATION CODE 82013)																			
(PROFILE VERSION A)																			
(21 MAY 76)																			
(PAGE G1)																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	72.4	71.7	72.0	69.9	70.5	70.4	68.5	68.7	66.7	66.7	69.7	69.5	70.6	71.6	72.8	69.4	65.6	66.4	67.8
250	70.4	69.6	69.9	67.8	68.4	68.3	66.4	66.7	64.6	64.6	67.7	67.4	68.7	69.7	69.1	67.4	63.6	64.4	65.7
315	68.3	67.5	67.8	65.7	66.3	66.2	64.3	64.6	62.5	62.5	65.6	65.3	66.6	67.6	67.0	65.3	61.5	62.3	63.6
400	66.2	65.4	65.7	63.6	64.2	64.1	62.2	62.5	60.3	60.3	63.4	63.2	64.5	65.5	64.9	63.1	59.3	60.2	61.5
500	64.2	63.4	63.7	61.6	62.2	62.1	60.2	60.5	58.3	58.3	61.4	61.2	62.5	63.5	62.9	61.1	57.3	58.2	59.5
630	61.7	61.0	61.3	59.1	59.7	59.6	57.7	58.1	55.9	55.9	59.0	58.8	60.1	61.0	60.4	58.7	54.9	55.6	57.0
900	59.4	58.6	59.0	56.8	57.3	57.3	55.5	55.8	53.5	53.5	56.6	56.4	57.8	58.7	58.1	56.3	52.5	53.2	54.7
1000	57.0	56.2	56.5	54.4	54.9	54.8	53.1	53.4	51.1	51.1	54.1	54.0	55.4	56.2	55.7	53.8	50.0	50.7	52.3
1250	54.3	53.6	53.9	51.8	52.2	52.1	50.3	50.7	48.4	48.4	51.4	51.2	52.7	53.6	53.1	51.2	47.3	48.0	49.8
1600	51.5	50.8	51.1	49.0	49.4	49.3	47.3	47.7	45.6	45.6	48.6	48.3	50.0	50.9	50.4	48.4	44.6	45.2	47.1
2000	48.6	47.9	48.1	46.1	46.5	46.3	44.2	44.6	42.6	42.6	45.6	45.2	47.1	48.0	47.6	45.6	41.8	42.2	44.1
2500	45.3	44.6	44.9	42.9	43.3	43.2	41.2	41.6	39.3	39.3	42.3	42.0	43.8	44.7	44.3	42.7	38.9	39.3	41.2
3150	41.6	41.0	41.3	39.4	39.7	39.6	37.6	38.0	35.7	35.7	38.7	38.4	40.2	41.1	40.7	38.6	34.8	35.1	37.0
4000	37.4	36.8	37.2	35.5	35.8	35.7	33.7	34.1	31.8	31.8	34.8	34.5	36.3	37.2	36.8	34.4	30.6	31.0	32.9
5000	32.8	32.3	32.8	31.1	31.4	31.3	29.3	29.7	27.4	27.4	30.4	30.1	31.9	32.8	32.3	30.0	26.2	26.7	28.6
6300	28.1	27.7	28.1	26.4	26.7	26.6	24.6	25.0	22.7	22.7	25.7	25.4	27.2	28.1	27.6	25.1	21.3	21.8	23.7
8000	24.1	23.7	24.0	22.0	22.3	22.2	20.2	20.6	18.3	18.3	21.3	21.0	22.8	23.7	23.2	20.7	16.9	17.4	19.3
10000	19.9	19.5	19.8	17.3	17.6	17.5	15.5	15.9	13.6	13.6	16.6	16.3	18.1	19.0	18.5	16.0	12.2	12.7	14.6
12500	15.7	15.3	15.6	13.1	13.4	13.3	11.3	11.7	9.4	9.4	12.4	12.1	13.9	14.8	14.3	11.8	8.0	8.5	10.4
16000	11.4	11.0	11.3	9.4	9.7	9.6	7.4	7.8	5.1	5.1	8.1	7.8	9.6	10.5	10.0	7.6	3.8	4.3	6.2
20000	6.9	6.3	6.7	5.1	5.4	5.3	3.1	3.5	0.8	0.8	3.8	3.5	5.3	5.8	5.3	2.9	0.0	0.5	2.4
25000	2.5	1.7	1.7	.6	.6	.6	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

G-118 AIRCRAFT

ENG. R-2800-52M

GROUND RUNUP

OPERATION:

IDLE, 800 RPM, C-118

SINGLE ENGINE

EST. FROM C-131 +0.003

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 73 %

DELTA N = -3.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 76-507-001

RUN 01

AIRCRAFT CODE 507

OPERATION CODE 02013

PROFILE VERSION A

21 MAY 76

PAGE J1

	P:PNLT											A:AL											T:ALT																										
	-10	0	10	20	30	40	50	60	70	80	90	-10	0	10	20	30	40	50	60	70	80	90	-10	0	10	20	30	40	50	60	70	80	90	-10	0	10	20	30	40	50	60	70	80	90					
0																																																	
10																																																	
20																																																	
30																																																	
40																																																	
50																																																	
60																																																	
70																																																	
80																																																	
90																																																	
100																																																	
110																																																	
120																																																	
130																																																	
140																																																	
150																																																	
160																																																	
170																																																	
180																																																	

TABLE 1 NORMALIZED SOUND PRESSURE LEVEL (DB)										IDENTIFICATIONS									
1/3 OCTAVE BAND										) OMEGA 8.2									
DISTANCE = 250 FEET										) TEST 76-507-001									
NOISE SOURCE/SUBJECTS										) RUN 82									
G-118 AIRCRAFT										) AIRCRAFT CODE 507									
ENG. R-2903-52W										) OPERATION CODE 92688									
GROUND RUNUP										) PROFILE VERSION A									
EST. FROM G-131 + J-203										) 21 MAY 76									
DELTA N = -3.9 DB										) PAGE C2									
BAND CENTER										ANGLE (DEGREES)									
FREQ (HZ)	14	20	36	50	63	70	83	93	100	110	123	130	140	150	160	170	180		
50	63	69	72	73	76	74	83	81	87	91	93	94	93	92	91	95	85	75	
63	65	64	61	61	61	62	73	73	78	81	83	82	83	82	79	80	70	63	
80	86	85	84	83	82	83	94	84	82	84	82	77	79	79	77	88	70	63	
100	85	84	84	84	84	84	92	85	83	76	73	81	85	86	82	87	77	67	
125	83	84	81	83	83	85	81	73	73	77	75	79	81	83	84	89	79	69	
150	85	84	81	80	78	78	79	75	73	78	79	84	85	88	87	92	92	72	
175	87	85	82	81	80	79	81	85	88	83	79	83	86	89	84	87	77	67	
200	86	84	83	82	81	79	75	75	81	82	79	84	85	85	80	84	74	64	
225	83	82	81	81	81	79	75	75	81	82	82	86	84	84	80	84	74	64	
250	84	78	78	76	76	73	74	72	78	82	86	84	84	84	80	84	74	64	
275	76	75	75	72	71	71	74	69	73	83	86	84	88	78	77	79	69	59	
300	73	73	73	73	69	63	72	67	73	81	84	83	79	76	76	67	67	57	
325	72	72	73	73	68	63	72	65	81	82	85	77	76	73	73	77	67	57	
350	71	70	69	69	66	65	66	62	78	79	81	77	76	73	72	76	66	56	
375	68	68	67	67	66	65	65	65	73	73	74	75	74	73	69	75	65	55	
400	72	71	69	68	68	67	67	67	71	71	72	73	72	69	67	73	53	53	
425	67	67	68	68	68	67	67	65	68	68	70	78	78	68	65	78	68	58	
450	64	65	64	63	63	63	65	65	65	64	67	66	66	64	61	66	56	46	
475	63	64	63	62	62	62	63	63	64	62	64	64	63	61	58	63	53	43	
500	63	61	60	59	59	59	60	60	61	59	60	59	58	58	54	59	49	39	
525	58	58	57	57	56	56	59	59	59	57	58	57	56	56	51	57	47	37	
550	56	56	54	54	54	56	55	55	56	54	55	54	53	54	50	54	44	34	
575	54	54	53	52	52	54	54	54	53	52	51	52	51	51	49	52	42	32	
600	54	53	53	52	52	54	54	54	53	52	51	52	51	51	49	52	42	32	
OVERALL	96	96	95	93	92	93	93	93	93	95	97	97	98	97	95	100	93	88	

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-118 AIRCRAFT																			
ENG. R-2800-52M																			
GROUND RUNUP																			
(OPERATIONS:																			
GROUND POWER CHECK, C-118																			
2050 RPM																			
SINGLE ENGINE																			
EST. FROM C-131 +0.008																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = -3.8 DB																			
DISTANCE																			
(FEET)																			
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	102.2	101.7	100.4	99.3	98.6	98.2	101.3	101.2	98.2	100.8	101.8	103.7	103.7	103.8	103.3	108.6	105.4	95.2	84.8
250	100.1	99.6	98.7	97.2	96.5	96.1	99.2	99.1	96.0	98.6	99.7	101.6	101.6	101.7	101.3	98.5	103.3	93.1	82.6
300	98.0	97.5	96.6	95.0	94.3	93.9	97.0	97.0	93.9	96.5	97.5	99.4	99.4	99.6	99.1	96.4	101.2	90.9	81.3
350	95.8	95.3	94.4	92.8	92.1	91.5	94.6	94.6	91.5	94.2	95.2	97.2	97.2	97.4	96.9	94.1	99.8	88.6	77.9
400	93.5	93.0	92.0	90.4	89.7	89.3	92.6	92.5	89.1	91.9	92.9	94.9	94.9	95.1	94.6	91.7	96.6	85.2	75.4
450	91.1	90.4	89.5	88.3	87.3	86.5	90.3	90.3	86.5	89.4	90.5	92.5	92.5	92.5	92.1	89.1	94.1	83.6	73.8
500	88.6	87.7	86.7	85.5	84.8	83.3	87.7	87.5	83.3	86.9	88.1	90.1	90.1	90.1	89.4	86.5	91.6	81.1	73.5
600	86.8	84.9	83.8	82.8	82.2	81.2	85.0	84.8	81.0	84.4	85.5	87.5	87.5	87.5	86.6	83.6	89.8	78.5	67.8
700	82.9	82.0	81.1	80.1	79.4	78.4	81.5	81.4	77.7	81.5	82.8	84.9	84.9	84.7	83.5	80.5	86.8	75.4	64.7
800	79.6	79.4	78.5	77.1	76.5	75.4	77.8	77.7	74.0	78.8	80.0	82.2	82.2	81.6	81.5	77.7	82.7	72.1	61.3
900	76.5	75.8	74.9	74.0	73.4	72.3	73.7	73.7	70.5	75.7	77.3	79.2	79.2	78.6	78.0	74.6	79.2	68.5	57.5
1000	72.6	71.9	70.9	70.0	69.4	68.3	69.1	69.2	66.4	71.9	73.6	75.3	75.3	74.9	75.0	73.9	78.8	68.8	58.6
1100	68.2	67.5	66.5	65.0	64.0	63.8	64.1	64.2	61.8	67.7	69.3	71.2	71.2	70.9	70.8	69.8	74.3	64.8	54.6
1200	63.1	62.4	61.4	60.0	59.8	59.8	60.2	60.2	57.5	63.2	65.0	66.9	66.9	66.3	65.2	62.1	66.7	55.8	45.5
1300	57.7	56.9	56.0	55.4	55.4	55.3	55.9	55.9	53.8	59.9	61.0	63.4	63.4	62.8	61.4	58.2	61.8	50.5	37.4
1400	52.3	51.3	50.4	49.9	49.9	49.7	49.7	49.7	47.7	53.7	55.7	57.7	57.7	57.0	56.3	53.1	56.6	44.6	30.3
1500	48.2	47.0	46.1	45.4	45.4	45.5	45.5	45.5	43.3	49.3	51.6	54.1	54.1	52.6	52.3	47.3	52.6	39.8	23.6
1600	43.1	41.9	40.6	39.6	37.5	37.0	36.3	37.5	33.5	43.3	46.7	49.5	49.5	47.9	47.6	46.5	42.4	34.6	13.5
1700	37.1	35.8	34.2	33.0	32.5	31.3	29.9	31.9	28.4	37.2	41.0	44.2	44.2	42.4	42.2	41.2	36.6	28.2	3.6
1800	31.3	29.8	28.2	27.3	25.8	23.8	23.9	22.0	18.6	30.2	34.6	38.5	38.5	36.3	36.1	35.2	30.6	19.8	
1900	23.4	21.8	20.1	18.1	16.2	13.5	6.9	8.0	0.7	20.0	27.0	31.2	31.2	29.8	29.5	28.0	20.4	7.7	
2000	13.0	8.3	7.3	5.1	6.8	3.1				9.3	15.4	22.2	22.2	18.6	13.6	17.3	7.6	19.3	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-118 AIRCRAFT																				
ENG. R-2800-52M																				
GROUND RUNUP																				
(OPERATION: GROUND POWER CHECK, C-118																				
(2050 RPM																				
(SINGLE ENGINE																				
(EST. FROM C-131 +0.008																				
METEOROLOGY: = 53 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -3.0 DB																				
IDENTIFICATIONS: OMEGA 8.2																				
TEST 76-507-001																				
RUN 02																				
AIRCRAFT CODE 507																				
OPERATION CODE 02008																				
PROFILE VERSION A																				
21 MAY 76																				
PAGE E2																				
DISTANCE		ANGLE (DEGREES)																		
(FEET)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	102.2	101.7	102.4	100.6	93.3	98.2	101.3	101.2	98.9	100.8	101.8	103.7	104.5	104.4	103.4	101.2	106.2	96.0	85.6	
250	100.1	99.6	100.3	98.4	97.2	96.1	99.2	99.1	96.8	98.6	99.7	101.6	102.3	102.3	101.3	99.4	104.1	93.9	83.4	
315	98.0	97.5	98.1	96.3	95.0	93.9	97.0	97.0	94.6	96.4	97.5	99.4	100.2	100.1	99.1	97.1	102.0	91.7	81.1	
400	95.8	95.3	95.9	94.0	92.7	91.5	94.9	94.8	92.2	94.2	95.2	97.2	98.0	97.9	96.9	94.7	99.8	89.4	78.7	
500	93.5	93.0	93.6	91.7	90.4	89.0	92.6	92.5	89.8	91.9	92.9	94.9	95.7	95.5	94.6	92.3	97.4	87.0	76.2	
630	91.1	90.4	91.0	89.3	88.0	86.5	90.3	90.1	87.2	89.4	90.5	92.5	93.1	93.1	92.1	89.7	94.9	84.4	73.6	
800	88.5	87.7	88.3	86.7	85.5	83.9	87.7	87.5	84.5	86.3	88.1	90.1	90.5	90.6	89.4	87.1	92.4	81.9	71.3	
1000	86.0	84.9	85.4	84.1	82.9	81.2	85.0	84.8	81.7	84.4	85.5	87.6	87.9	88.0	86.6	84.2	89.8	79.3	68.5	
1250	82.9	82.0	82.6	81.3	80.1	78.4	81.5	81.4	78.4	81.6	82.8	84.9	85.2	85.2	83.5	81.1	86.8	76.2	65.5	
1500	79.6	79.0	79.6	78.4	77.1	75.4	77.8	77.7	74.7	78.8	80.0	82.2	82.4	82.4	80.5	78.3	83.5	72.9	62.1	
2000	76.5	75.8	76.5	75.3	74.1	72.3	73.7	73.7	71.2	75.7	77.0	79.2	79.4	79.4	77.4	75.2	80.8	69.3	58.3	
2500	72.6	71.9	72.5	71.3	70.1	68.3	69.1	69.2	67.1	71.9	73.6	76.0	75.6	75.5	73.9	71.4	76.2	65.6	54.4	
3150	68.2	67.5	68.1	66.9	65.6	63.8	64.0	64.2	62.5	67.7	70.4	72.3	71.9	71.4	69.8	67.3	72.1	61.4	49.8	
4000	63.1	62.4	62.7	61.6	60.4	58.6	58.2	59.2	57.1	63.2	65.7	68.2	67.5	66.8	65.2	62.6	67.4	56.4	44.2	
5000	57.7	56.9	56.9	56.2	54.5	53.3	52.6	53.8	51.3	58.6	61.0	63.4	62.5	61.8	60.2	57.4	62.2	51.8	37.9	
6300	52.3	51.3	51.3	50.4	48.2	47.7	46.6	48.0	45.0	53.7	55.7	58.4	57.3	56.5	55.0	52.0	56.9	44.9	30.6	
8000	48.2	47.0	46.4	45.7	43.7	42.7	41.9	43.3	39.8	48.7	51.6	54.3	52.8	52.4	50.9	47.4	52.7	40.0	23.7	
10000	43.1	41.9	40.6	39.6	37.5	37.0	36.3	37.5	33.5	43.0	46.7	49.5	47.9	47.6	46.5	42.4	48.8	34.6	13.5	
12500	37.1	35.8	34.2	33.6	32.5	31.0	29.9	31.9	26.4	37.2	41.0	44.2	42.4	42.2	41.2	36.6	42.6	28.2	3.4	
15000	31.3	29.6	28.2	27.3	25.8	23.8	20.9	22.8	16.0	30.2	34.6	38.5	36.3	36.1	35.2	30.6	36.7	19.0		
20000	23.4	21.6	18.1	16.2	16.3	13.5	6.9	8.0	6.7	20.0	27.0	31.2	29.8	29.5	28.0	20.4	29.4	7.7		
25000	13.6	8.3	7.9	5.1	6.8	3.1				9.8	15.4	22.2	18.6	18.4	17.3	7.6	19.3			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-11b AIRCRAFT																			
ENG. R-2800-52M																			
GROUND RUNUP																			
EST. FROM C-131 + C-808																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	88.4	87.6	86.7	85.6	84.6	83.7	82.7	81.7	80.7	79.7	78.7	77.7	76.7	75.7	74.7	73.7	72.7	71.7	70.7
250	86.4	85.6	84.6	83.6	82.5	81.6	80.6	79.5	78.5	77.4	76.4	75.4	74.4	73.4	72.4	71.4	70.4	69.4	68.4
315	84.3	83.5	82.6	81.5	80.4	79.5	78.5	77.4	76.4	75.4	74.4	73.4	72.4	71.4	70.4	69.4	68.4	67.4	66.4
400	82.3	81.4	80.5	79.4	78.3	77.4	76.4	75.4	74.4	73.4	72.4	71.4	70.4	69.4	68.4	67.4	66.4	65.4	64.4
500	80.1	79.3	78.3	77.2	76.2	75.2	74.2	73.2	72.2	71.2	70.2	69.2	68.2	67.2	66.2	65.2	64.2	63.2	62.2
630	77.9	77.0	76.0	75.0	73.9	73.0	72.0	71.0	70.0	69.0	68.0	67.0	66.0	65.0	64.0	63.0	62.0	61.0	60.0
830	75.6	74.7	73.7	72.7	71.7	70.7	69.7	68.7	67.7	66.7	65.7	64.7	63.7	62.7	61.7	60.7	59.7	58.7	57.7
1000	73.2	72.3	71.3	70.3	69.3	68.4	67.4	66.4	65.4	64.4	63.4	62.4	61.4	60.4	59.4	58.4	57.4	56.4	55.4
1250	70.6	69.7	68.7	67.8	66.8	65.8	64.8	63.8	62.8	61.8	60.8	59.8	58.8	57.8	56.8	55.8	54.8	53.8	52.8
1600	67.9	66.9	65.9	65.1	64.2	63.1	62.1	61.1	60.1	59.1	58.1	57.1	56.1	55.1	54.1	53.1	52.1	51.1	50.1
2000	65.0	64.1	63.1	62.1	61.1	60.1	59.1	58.1	57.1	56.1	55.1	54.1	53.1	52.1	51.1	50.1	49.1	48.1	47.1
2500	61.7	60.8	59.8	58.8	57.8	56.8	55.8	54.8	53.8	52.8	51.8	50.8	49.8	48.8	47.8	46.8	45.8	44.8	43.8
3150	58.6	57.1	56.1	55.1	54.1	53.1	52.1	51.1	50.1	49.1	48.1	47.1	46.1	45.1	44.1	43.1	42.1	41.1	40.1
4000	53.9	53.1	52.1	51.1	50.1	49.1	48.1	47.1	46.1	45.1	44.1	43.1	42.1	41.1	40.1	39.1	38.1	37.1	36.1
5000	49.4	48.7	47.6	46.6	45.6	44.6	43.6	42.6	41.6	40.6	39.6	38.6	37.6	36.6	35.6	34.6	33.6	32.6	31.6
6300	44.9	44.1	43.1	42.1	41.1	40.1	39.1	38.1	37.1	36.1	35.1	34.1	33.1	32.1	31.1	30.1	29.1	28.1	27.1
8000	41.4	40.5	39.5	38.5	37.5	36.5	35.5	34.5	33.5	32.5	31.5	30.5	29.5	28.5	27.5	26.5	25.5	24.5	23.5
10000	37.6	36.7	35.7	34.7	33.7	32.7	31.7	30.7	29.7	28.7	27.7	26.7	25.7	24.7	23.7	22.7	21.7	20.7	19.7
12500	33.6	32.7	31.6	30.6	29.6	28.6	27.6	26.6	25.6	24.6	23.6	22.6	21.6	20.6	19.6	18.6	17.6	16.6	15.6
16000	29.3	28.3	27.3	26.3	25.3	24.3	23.3	22.3	21.3	20.3	19.3	18.3	17.3	16.3	15.3	14.3	13.3	12.3	11.3
20000	24.7	23.6	22.6	21.6	20.6	19.6	18.6	17.6	16.6	15.6	14.6	13.6	12.6	11.6	10.6	9.6	8.6	7.6	6.6
25000	19.8	18.8	17.8	16.8	15.8	14.8	13.8	12.8	11.8	10.8	9.8	8.8	7.8	6.8	5.8	4.8	3.8	2.8	1.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS:									
C-116 AIRCRAFT										OMEGA 8.2									
ENG. R-2800-52M										TEST 76-507-001									
GROUND RUNUP										RUN 02									
OPERATION:										AIRCRAFT CODE 507									
GROU J JWER CHECK, C-113										OPERATION CODE 02008									
2050										BAR PRESS = 59 F									
SIV										REL HUMID = 70 %									
EST										DELTA N = -3.0 DB									
COM C-131 +C-108										PAGE G2									
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
250	88.4	87.0	85.3	83.9	82.6	81.2	79.9	78.5	77.1	75.7	74.3	72.9	71.5	70.1	68.7	67.3	65.9	64.5	63.1
250	86.4	85.0	83.2	81.8	80.5	79.1	77.7	76.3	74.9	73.5	72.1	70.7	69.3	67.9	66.5	65.1	63.7	62.3	60.9
315	84.3	83.5	81.1	79.7	78.3	76.9	75.5	74.1	72.7	71.3	69.9	68.5	67.1	65.7	64.3	62.9	61.5	60.1	58.7
400	82.3	81.4	79.0	77.6	76.2	74.8	73.4	72.0	70.6	69.2	67.8	66.4	65.0	63.6	62.2	60.8	59.4	58.0	56.6
500	80.1	79.3	76.9	75.5	74.1	72.7	71.3	69.9	68.5	67.1	65.7	64.3	62.9	61.5	60.1	58.7	57.3	55.9	54.5
630	77.9	77.0	74.6	73.2	71.8	70.4	69.0	67.6	66.2	64.8	63.4	62.0	60.6	59.2	57.8	56.4	55.0	53.6	52.2
800	75.6	74.7	72.3	70.9	69.5	68.1	66.7	65.3	63.9	62.5	61.1	59.7	58.3	56.9	55.5	54.1	52.7	51.3	49.9
1000	73.2	72.3	70.0	68.6	67.2	65.8	64.4	63.0	61.6	60.2	58.8	57.4	56.0	54.6	53.2	51.8	50.4	49.0	47.6
1250	70.6	69.7	67.2	65.8	64.4	63.0	61.6	60.2	58.8	57.4	56.0	54.6	53.2	51.8	50.4	49.0	47.6	46.2	44.8
1600	67.9	66.9	64.3	62.9	61.5	60.1	58.7	57.3	55.9	54.5	53.1	51.7	50.3	48.9	47.5	46.1	44.7	43.3	41.9
2000	65.0	64.1	61.5	60.1	58.7	57.3	55.9	54.5	53.1	51.7	50.3	48.9	47.5	46.1	44.7	43.3	41.9	40.5	39.1
2500	61.7	60.8	58.2	56.8	55.4	54.0	52.6	51.2	49.8	48.4	47.0	45.6	44.2	42.8	41.4	40.0	38.6	37.2	35.8
3150	58.0	57.1	54.5	53.1	51.7	50.3	48.9	47.5	46.1	44.7	43.3	41.9	40.5	39.1	37.7	36.3	34.9	33.5	32.1
4000	53.9	53.1	50.5	49.1	47.7	46.3	44.9	43.5	42.1	40.7	39.3	37.9	36.5	35.1	33.7	32.3	30.9	29.5	28.1
5000	49.4	48.7	46.1	44.7	43.3	41.9	40.5	39.1	37.7	36.3	34.9	33.5	32.1	30.7	29.3	27.9	26.5	25.1	23.7
6300	44.9	44.1	41.5	40.1	38.7	37.3	35.9	34.5	33.1	31.7	30.3	28.9	27.5	26.1	24.7	23.3	21.9	20.5	19.1
8000	41.4	40.5	37.9	36.5	35.1	33.7	32.3	30.9	29.5	28.1	26.7	25.3	23.9	22.5	21.1	19.7	18.3	16.9	15.5
10000	37.6	36.7	34.1	32.7	31.3	29.9	28.5	27.1	25.7	24.3	22.9	21.5	20.1	18.7	17.3	15.9	14.5	13.1	11.7
12500	33.6	32.7	30.1	28.7	27.3	25.9	24.5	23.1	21.7	20.3	18.9	17.5	16.1	14.7	13.3	11.9	10.5	9.1	7.7
16000	29.3	28.3	25.7	24.3	22.9	21.5	20.1	18.7	17.3	15.9	14.5	13.1	11.7	10.3	8.9	7.5	6.1	4.7	3.3
20000	24.7	23.8	21.2	19.8	18.4	17.0	15.6	14.2	12.8	11.4	10.0	8.6	7.2	5.8	4.4	3.0	1.6	0.2	-1.2
25000	19.0	18.0	15.4	14.0	12.6	11.2	9.8	8.4	7.0	5.6	4.2	2.8	1.4	0.0	-1.4	-2.8	-4.2	-5.6	-7.0

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-118 AIRCRAFT
 ENG. R-2800-52N
 GROUND RUNUP
 IDENTIFICATIONS:
 OMEGA 8.2
 TEST 76-507-001
 RUN 02
 AIRCRAFT CODE 507
 OPERATION CODE 02008
 PROFILE VERSION A
 21 MAY 76
 PAGE J2
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB

	P=PNLT										A=AL										T=ALT										
	10	20	30	40	50	60	70	80	90	100	110		10	20	30	40	50	60	70	80	90	100	110								
0							
10							
20							
30							
40							
50							
60							
70							
80							
90							
100							
110							
120							
130							
140							
150							
160							
>170							
>180							

ANGLES

IN DEGREES

NOISE LEVEL IN DBA

02 03 04

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.
 NOISE LEVEL IN PNDB OR DBA

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
(C-118 AIRCRAFT)																		
(ENG. R-2600-52M)																		
(GROUND RUNUP)																		
(EST. FROM C-131 +0.008)																		
(OPERATION:)																		
(TAKEOFF POWER, C-118)																		
(2800 RPM)																		
(SINGLE ENGINE)																		
(METEOROLOGY:)																		
(TEMP = 59 F)																		
(BAR PRESS = 29.92 IN HG)																		
(REL HUMID = 70 %)																		
(DELTA N = -3.0 DB)																		
IDENTIFICATION:																		
OMEGA 0.2																		
TEST 76-507-001																		
RUN 03																		
AIRCRAFT CODE 507																		
OPERATION CODE 02030																		
PROFILE VERSION A																		
21 MAY 76																		
PAGE C3																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	85	82	85	84	87	89	88	91	95	95	94	96	91	89	90	80	70	
63	98	94	96	100	104	105	101	99	106	110	110	112	108	105	100	90	80	
80	84	83	84	84	87	89	89	86	85	87	90	91	93	88	86	80	70	60
100	88	88	87	91	92	93	91	91	92	94	93	94	92	89	86	79	69	59
125	100	100	101	104	105	99	95	105	108	110	107	103	100	100	91	79	69	
160	99	96	97	97	103	99	100	99	102	104	101	105	104	103	94	86	76	66
200	101	103	102	97	96	93	96	97	101	103	100	102	102	96	88	81	71	61
250	105	104	103	99	98	102	100	101	103	106	105	104	107	110	99	91	84	64
315	105	105	101	100	99	102	96	102	105	105	104	107	107	97	88	84	74	64
400	103	100	98	99	98	99	98	96	100	100	102	101	103	100	93	82	78	58
500	101	102	100	97	97	97	96	101	99	101	103	104	103	96	84	81	71	61
630	96	98	95	98	95	92	93	95	94	95	97	98	101	99	81	78	68	58
800	95	95	93	96	94	94	94	95	94	96	97	99	99	92	82	80	70	60
1000	93	92	92	93	92	91	93	92	94	97	95	97	97	88	80	78	68	58
1250	91	90	92	91	90	90	92	93	92	96	96	96	96	87	79	76	66	56
1600	89	88	89	88	87	90	91	93	91	93	94	95	94	84	78	73	63	53
2000	87	87	87	88	87	86	89	89	91	89	93	94	94	83	77	72	62	52
2500	87	87	87	87	86	88	89	91	90	93	93	94	94	84	77	72	62	52
3150	85	85	84	84	84	86	87	89	88	90	91	92	92	83	75	71	61	51
4000	84	83	84	83	84	85	85	89	87	89	90	91	91	83	75	71	61	51
5000	81	80	80	81	81	81	82	86	84	85	88	87	87	80	72	68	58	48
6300	80	79	79	79	79	78	80	84	83	84	86	85	85	79	71	66	56	46
8000	76	75	76	76	75	77	77	81	80	81	82	82	81	76	68	63	53	43
10000	72	72	73	72	71	73	74	77	78	81	80	79	77	71	64	59	49	39
OVERALL	112	111	110	110	110	109	109	112	113	115	115	115	117	111	106	101	91	81
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE																		

TABLE: PERCEIVED NOISE LEVEL (PNCL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-118 AIRCRAFT																			
ENG. R-2800-52N																			
GROUND RUNUP																			
OPERATIONS:																			
TAKEOFF POWER, C-118																			
2800 RPM																			
SINGLE ENGINE																			
EST. FROM C-131 +0.008																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
DISTANCE (FEET)																			
200	120.2	119.9	118.5	117.9	118.0	118.2	117.6	119.0	121.4	121.6	122.8	123.8	123.7	124.6	116.5	118.0	104.9	94.7	83.8
250	118.1	117.8	116.4	115.8	115.9	116.1	115.5	116.8	119.2	119.4	120.7	121.7	121.6	122.4	114.4	117.9	102.7	92.5	81.4
300	116.0	115.6	114.2	113.6	113.7	114.0	113.3	114.7	117.1	117.3	118.5	119.5	119.5	120.3	112.2	105.7	100.6	90.3	78.9
350	113.8	113.5	112.0	111.4	111.5	111.8	111.1	112.5	114.9	115.1	116.3	117.3	117.3	118.1	110.0	103.5	98.4	88.0	76.4
400	111.6	111.2	109.7	109.1	109.2	109.5	108.8	110.2	112.6	112.8	114.0	115.0	115.0	115.8	107.6	101.3	96.1	85.5	73.8
450	109.2	108.9	107.2	106.8	106.9	107.2	106.5	107.8	110.2	110.5	111.5	112.7	112.5	113.3	105.3	99.0	93.7	82.8	71.1
500	106.8	106.5	104.7	104.3	104.4	104.8	104.0	105.4	107.8	108.0	108.9	110.3	109.8	110.7	102.6	96.5	91.3	80.1	68.4
550	104.3	103.9	102.1	101.8	101.9	102.2	101.4	102.8	105.2	105.4	106.3	107.7	107.2	107.9	100.1	94.0	88.8	77.3	65.5
600	101.5	101.0	99.4	99.1	99.2	99.2	98.7	99.8	102.2	102.4	103.3	104.7	104.5	104.3	97.4	91.4	86.1	74.3	62.5
650	98.7	97.9	96.6	96.2	96.3	96.0	95.8	96.6	98.9	99.2	100.5	101.5	101.6	101.7	94.4	88.4	83.1	71.3	59.5
700	95.7	94.9	93.5	93.2	93.2	92.9	92.7	93.0	95.5	95.7	97.4	98.1	98.6	98.4	91.4	85.4	80.1	68.3	56.5
750	91.9	91.6	90.2	89.4	89.8	89.1	88.9	89.0	92.1	91.7	93.6	94.7	95.2	95.0	87.3	81.3	76.0	64.2	52.4
800	87.7	87.7	86.2	85.6	85.8	84.8	84.7	85.0	88.1	87.4	89.4	90.7	91.2	91.0	83.2	77.2	71.9	60.1	48.3
850	83.3	83.3	81.8	81.4	81.4	80.1	80.2	80.5	83.6	82.8	84.9	86.3	86.7	86.5	78.6	72.6	67.3	55.5	43.7
900	78.6	78.6	77.1	76.7	76.7	75.3	75.4	75.7	78.8	78.0	80.1	81.5	82.0	81.7	73.8	67.8	62.5	50.7	38.9
950	73.7	73.8	72.2	71.8	71.8	70.3	70.4	70.7	73.8	73.0	75.1	76.5	77.0	76.8	68.8	62.8	57.5	45.7	33.9
1000	69.9	70.1	68.4	67.8	68.0	66.5	66.5	66.8	70.0	69.2	71.3	72.7	73.2	72.9	65.0	59.0	53.7	41.9	30.1
1050	65.9	66.1	64.3	63.5	63.9	62.3	62.2	62.5	65.8	65.1	67.2	68.7	69.1	68.9	60.8	54.8	49.5	37.7	25.9
1100	61.4	61.6	59.8	58.7	59.4	57.8	57.2	57.8	61.4	60.6	62.7	64.2	64.6	64.4	56.3	50.3	45.0	33.2	21.4
1150	56.6	56.8	54.8	53.4	54.4	52.9	52.5	52.8	56.3	55.7	57.8	59.3	59.7	59.6	51.2	45.2	39.9	28.1	16.3
1200	51.1	51.4	49.3	47.8	48.9	47.1	46.8	46.9	50.9	50.2	52.3	53.7	54.1	54.1	45.5	39.5	33.2	21.4	9.6
1250	44.8	45.0	42.6	40.9	42.0	40.1	39.5	39.8	44.2	43.7	45.8	47.6	47.9	47.3	38.7	32.7	26.4	14.6	2.8
SPL DATA WERE EXTRAPOLATED FOR 1415 ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

► SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

>> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																																							
NOISE SOURCE/SUBJECT: (C-116 AIRCRAFT (ENG. R-2800-52M (GROUND RUNUP										OPERATION: (TAKEOFF POWER, C-118 (2800 RPM (SINGLE ENGINE (EST. FROM C-131 +0.008										METEOROLOGY: (TEMP = 59 F (BAR PRESS = 29.92 IN HG (REL HUMID = 70 % (DELTA N = -3.0 DB										IDENTIFICATION: (OMEGA 8.2 (TEST 76-507-001 (RUN 03 (AIRCRAFT CODE 507 (OPERATION CODE 02030 (PROFILE VERSION A (21 MAY 76 (PAGE G3									
DISTANCE (FEET)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180																			
200		106.8	108.9	107.3	107.7	106.6	105.7	105.3	106.3	109.3	109.7	111.2	111.9	111.4	112.1	103.8	94.5	90.6	80.6	70.6																			
250		106.8	106.8	105.3	105.6	104.5	103.7	103.2	104.2	107.3	107.6	109.1	109.9	109.4	110.0	101.8	92.4	88.5	78.5	68.5																			
315		104.7	104.7	103.2	103.5	102.5	101.6	101.1	102.1	105.2	105.5	107.0	107.8	107.2	107.9	99.7	90.3	86.4	76.4	66.4																			
400		102.6	102.6	101.1	101.4	100.3	99.5	99.0	99.9	103.0	103.4	104.9	105.6	105.1	105.8	97.6	88.1	84.2	74.2	64.2																			
500		101.5	101.5	98.9	99.3	98.2	97.3	96.8	97.8	100.8	101.2	102.7	103.5	102.9	103.7	95.4	85.9	82.0	72.0	62.0																			
630		95.3	98.3	96.7	97.0	95.9	95.1	94.5	95.5	98.6	99.0	100.5	101.2	100.7	101.4	93.1	83.6	79.8	69.8	59.8																			
800		96.0	96.1	94.4	94.8	93.7	92.8	92.2	93.2	96.3	96.6	98.1	99.3	98.3	99.0	90.7	81.2	77.5	67.5	57.5																			
1000		93.7	93.7	92.5	92.5	91.3	90.5	89.8	90.8	93.9	94.2	95.7	96.6	96.0	96.5	88.3	78.8	75.1	65.1	55.1																			
1250		91.2	91.2	89.5	89.5	88.9	87.9	87.3	88.2	91.3	91.6	93.2	94.1	93.5	94.0	85.8	76.2	72.6	62.6	52.6																			
1600		88.7	88.7	86.9	87.5	86.3	85.3	84.8	85.5	88.6	88.9	90.5	91.4	90.9	91.3	83.1	73.3	69.9	59.9	49.9																			
2000		86.0	86.0	84.3	84.9	83.7	82.5	82.1	82.7	85.8	86.0	87.6	88.7	88.2	88.5	80.3	70.4	67.1	57.1	47.1																			
2500		82.9	83.0	81.3	81.9	80.8	79.4	79.1	79.7	82.7	82.8	84.7	85.6	85.3	85.4	77.3	67.2	64.1	54.1	44.1																			
3150		79.3	79.5	77.9	78.7	77.4	75.9	75.7	76.3	79.2	79.3	81.2	82.3	82.0	82.0	73.9	63.7	60.9	50.9	40.9																			
4000		75.3	75.5	73.8	74.7	73.4	71.9	71.8	72.5	75.1	75.1	77.1	78.2	78.1	78.0	69.9	59.8	57.1	47.1	37.1																			
5000		70.7	71.0	69.4	70.3	69.0	67.5	67.5	68.2	70.5	70.5	72.6	73.7	73.9	73.6	65.5	55.6	52.9	42.9	32.9																			
6300		66.1	66.3	64.7	65.5	64.3	62.9	62.9	63.7	65.7	65.7	67.8	69.0	69.4	68.9	60.9	51.1	48.4	38.4	28.4																			
8000		62.3	62.5	60.8	61.4	60.4	59.0	59.0	59.7	61.7	61.6	63.6	64.9	65.5	65.0	57.0	47.2	44.3	34.3	24.3																			
10000		58.2	58.4	56.5	56.9	56.2	54.8	54.7	55.4	57.5	57.3	59.2	60.5	61.3	61.7	52.7	43.0	39.9	29.9	19.9																			
12500		54.1	54.3	52.2	52.4	51.9	50.5	50.3	50.9	53.2	52.9	54.7	56.1	56.8	56.3	48.4	38.7	35.4	25.4	15.4																			
16000		49.5	49.7	47.6	47.5	47.2	45.9	45.5	46.0	48.6	48.3	49.9	51.4	52.0	51.6	43.8	34.3	30.6	20.6	10.6																			
20000		44.5	44.6	42.4	42.1	42.0	40.8	40.3	40.7	43.6	43.3	44.8	46.2	46.8	46.3	38.8	29.8	25.6	15.6	5.6																			
25000		39.0	39.0	36.8	36.2	36.4	35.4	34.7	35.1	38.2	38.0	39.4	40.7	41.1	41.1	33.6	25.5	20.7	10.7																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: C-118 AIRCRAFT
 ENG. R-2800-52W
 GROUND RUNUP

OPERATION: TAXI/OFF POWER, C-118
 2800 RPM
 SINGLE ENGINE
 EST. FROM C-131 +0.0DB

METEOROLOGY: TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB

IDENTIFICATION: OMEGA 8.2
 TEST 76-507-001
 RUN 03
 AIRCRAFT LOD 507
 OPERATION CODE 02330
 PROFILE VERSION A
 21 MAY 76
 PAGE J3

	30	40	50	60	70	80	90	100	110	120	130
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
180											

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NORMALIZED SOUND PRESSURE LEVEL (DB)																					
1/3 OCTAVE BAND																					
DISTANCE = 250 FEET																					
NOISE SOURCE/SUBJECT 1																					
(C-118 AIRCRAFT)																					
(ENG. R-2500-52M)																					
(GROUND RUNUP)																					
(OPERATIONS)																					
(TAXI POWER, 1600 KPH)																					
(SINGLE ENGINE, C-118)																					
(EST. C-131 +0.0DB)																					
(METEOROLOGY)																					
(TEMP = 59 F)																					
(BAR PRESS = 29.92 IN HG)																					
(REL HUMID = 70 %)																					
(DELTA N = -3.0 DB)																					
IDENTIFICATION 1																					
(OMEGA 8.2)																					
(TEST 76-507-002)																					
(RUN 01)																					
(AIRCRAFT CODE 507)																					
(OPERATION CODE 02015)																					
(PROFILE VERSION A)																					
(21 MAY 76)																					
(PAGE C1)																					
BAND CENTER																					
FREQ (HZ)																					
50	77	77	75	74	77	76	78	78	70	80	90	100	110	120	130	140	150	160	170	180	
63	76	76	76	77	80	81	82	82	80	77	79	82	82	82	81	80	76	74	73	74	75
80	79	80	80	79	79	82	84	84	80	82	84	82	80	80	77	78	77	78	75	70	71
100	75	75	74	74	77	83	85	85	81	82	84	81	83	87	84	79	81	82	77	76	71
125	72	74	71	71	73	74	73	69	72	71	70	71	74	74	72	73	71	70	67	72	72
160	70	73	72	71	73	74	71	72	70	72	70	73	76	76	76	73	74	71	66	72	71
200	67	70	67	67	69	68	68	69	70	68	71	70	74	74	72	72	66	69	63	71	66
250	66	70	65	65	66	62	65	65	62	62	63	66	71	68	70	68	60	60	66	66	66
315	60	71	65	66	67	63	64	65	64	62	65	67	71	69	71	68	67	62	65	65	65
400	63	68	63	67	67	62	64	64	64	62	61	63	66	69	72	68	67	62	63	63	63
500	58	62	59	66	66	61	64	64	59	61	63	66	69	69	67	72	65	67	58	64	64
630	52	58	53	58	59	55	59	58	54	53	56	59	63	62	62	66	59	61	56	56	56
800	49	56	54	57	57	54	58	58	54	55	56	58	63	62	65	65	56	61	54	54	55
1000	47	57	51	55	55	53	56	56	54	53	54	56	59	59	63	62	56	59	51	52	52
1250	48	58	53	57	56	56	59	60	57	56	55	57	60	60	58	61	54	57	48	51	51
1600	47	56	51	56	55	53	56	56	55	57	59	59	60	58	61	54	57	48	47	51	51
2000	45	55	49	53	52	51	53	54	52	52	54	56	59	57	60	53	56	48	48	50	50
2500	44	54	48	54	53	52	54	55	54	53	53	55	58	58	60	53	55	48	48	49	49
3150	40	51	45	50	50	48	51	53	52	50	51	53	56	56	58	50	53	47	47	48	48
4000	40	52	45	50	49	48	50	52	51	49	48	51	55	56	57	50	52	47	47	47	47
5000	38	50	43	48	47	47	49	50	50	47	46	48	53	53	55	48	50	45	45	47	47
6300	37	48	42	46	46	46	47	48	48	46	45	47	51	51	52	54	47	49	42	45	45
8000	36	47	41	45	45	45	46	47	46	46	44	45	49	49	50	53	45	48	41	45	45
10000	33	43	37	41	40	40	42	43	43	41	39	40	44	46	46	48	41	44	37	41	41
OVERALL	84	85	84	84	86	86	89	88	87	87	87	88	90	88	86	85	85	80	85	80	85

TABLE: PERCEIVED NOISE LEVEL (PNBL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS:									
(C-116 AIRCRAFT )										) OMEGA 6.2									
(ENG. R-2800-52W )										) TEST 76-507-002									
(GROUND RUNUP )										) RUN 01									
( )										) AIRCRAFT CODE 507									
( )										) OPERATION CODE 02015									
( )										) PROFILE VERSION A									
( )										) 21 MAY 76									
( )										) PAGE 01									
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
230	84.5	88.2	85.3	86.8	87.8	89.6	91.5	90.1	89.4	89.8	89.5	90.9	94.1	92.1	91.7	88.9	89.9	83.9	88.1
250	82.1	85.9	82.9	84.5	85.4	87.4	89.3	87.7	87.2	87.0	87.1	88.7	92.0	89.9	89.4	86.7	87.7	81.5	86.0
315	79.7	83.5	80.5	82.1	83.1	85.2	87.1	85.3	85.0	85.4	84.7	86.5	89.8	87.7	87.2	84.4	85.5	79.1	83.8
+00	77.2	81.2	78.1	79.6	80.6	82.8	84.8	82.8	82.6	83.2	82.3	84.2	87.5	85.5	85.9	82.0	83.0	76.7	81.3
500	74.8	78.8	75.6	77.3	78.1	80.3	82.5	80.3	80.1	80.7	79.6	81.7	85.2	83.0	82.5	79.5	80.5	74.2	78.8
630	72.2	76.3	73.0	74.8	75.6	77.8	79.9	77.8	77.5	78.1	77.3	79.2	82.8	80.4	80.0	77.0	78.0	71.6	76.3
800	69.5	73.8	70.4	72.3	72.8	74.9	77.1	75.1	74.7	75.3	74.6	76.4	80.0	77.5	77.5	74.1	75.2	68.8	73.4
1000	66.7	71.1	67.6	69.6	70.1	71.7	73.5	72.3	71.5	72.1	71.9	73.2	76.8	74.4	74.8	71.0	72.0	65.5	70.2
1250	64.3	68.0	64.2	66.2	67.2	68.2	70.4	68.9	68.0	68.5	68.4	69.8	73.4	71.0	72.0	67.6	68.6	62.0	66.7
1500	59.5	63.0	60.3	63.7	64.2	66.2	68.6	65.2	64.1	64.6	64.7	66.1	69.7	67.3	69.0	64.1	64.9	58.0	62.8
2000	55.8	61.6	56.5	60.3	60.7	62.0	64.3	61.0	59.7	60.2	60.4	61.9	65.6	63.7	65.8	60.7	61.4	54.5	58.4
2500	51.2	57.2	51.8	55.9	56.3	58.5	61.4	58.2	56.8	57.2	57.5	58.9	62.6	60.9	63.9	58.9	59.3	53.8	58.7
3150	45.5	52.2	46.2	51.0	51.5	54.5	57.4	54.2	52.8	53.2	53.5	54.9	58.6	56.9	59.4	54.2	54.8	48.7	53.8
4000	38.7	46.1	39.8	45.5	46.0	48.5	51.6	48.1	46.7	47.0	47.3	48.7	52.4	50.6	53.4	48.3	47.4	42.9	48.9
5000	28.1	38.8	30.4	38.4	38.7	42.0	45.5	42.5	41.7	42.0	42.3	43.7	47.3	45.5	48.9	43.6	42.9	38.8	42.9
6300	17.8	30.1	20.6	31.7	31.9	35.4	38.2	35.2	33.6	34.5	34.8	36.2	40.8	39.0	42.7	37.4	36.6	31.5	36.0
8000	11.4	23.0	12.9	25.5	25.9	29.9	33.4	30.4	29.7	29.9	29.9	31.3	34.3	32.4	35.7	30.3	34.3	19.5	25.8
10000	4.9	14.6	5.3	18.0	18.4	21.7	25.1	23.1	22.5	22.5	22.5	24.1	27.4	25.4	29.3	24.3	28.1	11.2	21.1
12500		6.7		9.7	10.2	1.2	2.9			4.2	10.6	16.1	23.7	22.4	29.3	17.2	21.9	2.9	13.0
16000				1.4	2.0							6.9	12.5		6.8			4.9	
20000													5.1				2.1		
25000																			2.6

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS										IDENTIFICATIONS									
C-110 AIRCRAFT										OMEGA 8.2									
ENR. R-298.-52W										TEST 76-587-882									
GROUND RUNUP										RUN 31									
										AIRCRAFT CODE 587									
										OPERATION CODE 82815									
										PROFILE VERSION A									
										21 MAY 76									
										PAGE 11									
DISTANCE (FEET)										ANGLE (DEGREES)									
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190
266	84.5	84.2	85.3	86.8	87.8	89.4	91.2	93.5	95.9	91.1	91.1	91.9	93.6	95.4	98.1	91.4	85.1	89.5	1
253	82.1	85.9	82.3	84.5	85.4	88.2	90.4	93.1	95.3	88.4	89.7	91.4	93.6	95.4	98.1	91.4	85.1	89.5	1
315	79.7	83.5	80.3	82.1	83.1	86.2	88.2	90.5	92.3	85.4	86.7	88.4	90.2	92.0	94.7	88.0	81.3	85.1	1
400	77.3	81.2	78.1	79.6	80.6	83.6	85.6	87.9	90.1	83.2	84.4	86.2	88.0	89.8	92.4	85.7	79.0	82.6	1
500	74.8	78.8	75.5	77.3	78.1	81.1	83.6	85.9	88.1	81.2	82.4	84.2	86.0	87.8	90.4	83.7	77.0	80.6	1
633	72.2	76.3	73.3	75.0	75.6	78.5	81.0	83.4	85.6	78.7	79.9	81.6	83.4	85.2	87.8	81.1	74.4	78.0	1
808	69.5	73.8	70.4	72.3	72.8	75.7	78.2	80.3	82.5	75.6	76.8	78.4	80.2	82.0	84.6	77.9	71.2	74.8	1
1030	66.7	71.1	67.6	69.6	70.1	72.5	75.0	77.1	79.3	72.4	73.6	75.2	76.9	78.6	81.2	74.5	67.8	71.4	1
1258	63.3	68.3	64.2	66.2	66.7	69.1	71.5	73.5	75.7	68.8	70.0	71.6	73.3	75.0	77.6	70.9	64.2	67.8	1
1608	59.5	65.3	61.3	63.3	63.8	66.2	68.6	70.6	72.8	65.9	67.1	68.7	70.4	72.1	74.7	68.0	61.3	64.9	1
2008	55.8	61.6	57.6	59.6	60.1	62.5	64.9	66.9	69.1	62.2	63.4	65.0	66.7	68.4	71.0	64.3	57.6	61.2	1
2538	51.2	57.2	53.2	55.2	55.7	58.1	60.5	62.5	64.7	57.8	59.0	60.6	62.3	64.0	66.6	59.9	53.2	56.8	1
3158	45.5	52.2	48.2	50.2	50.7	53.1	55.5	57.5	59.7	52.8	54.0	55.6	57.3	59.0	61.6	54.9	48.2	51.8	1
4008	38.7	45.4	41.4	43.4	43.9	46.3	48.7	50.7	52.9	46.0	47.2	48.8	50.5	52.2	54.8	48.1	41.4	45.0	1
5038	28.1	34.8	30.8	32.8	33.3	35.7	38.1	40.1	42.3	35.4	36.6	38.2	39.9	41.6	44.2	37.5	30.8	34.4	1
6338	17.8	24.1	20.1	22.1	22.6	25.0	27.4	29.4	31.6	24.7	25.9	27.5	29.2	30.9	33.5	26.8	20.1	23.7	1
8038	11.4	13.6	12.3	13.5	13.9	16.2	18.6	20.6	22.8	15.9	17.1	18.7	20.4	22.1	24.7	18.0	11.3	14.9	1
16038	4.9	14.6	5.3	14.8	14.9	17.2	19.6	21.6	23.8	16.9	18.1	19.7	21.4	23.1	25.7	19.0	12.3	15.9	1
12538		6.7		9.7	13.2	14.2	2.1	2.9		1.2	7.4	11.0	18.7	25.4	28.7	29.3	17.2	21.9	2.9
16338				1.4	2.8					4.2	18.6	16.1	13.9	12.5	12.5	12.5	12.5	12.5	12.5
20038										2.3	2.3	6.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1
25338																			2.6

TABLE 8 A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

[illegible]

TABLE 1. TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OASL)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT																
C-119 AIRCRAFT																
ENGINE 2-2300-52M																
GROUND RUMOR																
OPERATION																
TAXI POWER, 1000 RPM																
SINGLE ENGINE, C-119																
EST. C-131 + J-47B																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 77 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 76-507-UJ2																
AIRCRAFT CODE 507																
OPERATION CODE 02015																
PROFILE VERSION A																
21 MAY 76																
PAGE 61																
ANGLE (DEGREES)																
DISTANCE (FEET)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	69.2	73.5	69.4	72.2	72.5	72.8	74.7	74.1	72.7	73.2	74.1	75.0	74.7	77.1	78.1	73.9
250	67.1	71.5	67.4	70.1	70.5	70.8	72.7	72.1	70.7	71.2	72.1	73.0	72.6	75.0	76.0	71.8
315	65.1	69.4	65.3	68.1	68.5	68.7	70.6	69.9	68.5	69.1	70.0	70.9	70.6	72.9	74.0	69.8
400	63.0	67.3	63.2	65.9	66.4	66.5	68.5	67.8	66.5	67.0	67.9	68.8	72.5	70.8	71.3	67.7
500	60.9	65.1	61.0	63.8	64.3	64.4	66.4	65.7	64.3	64.9	65.7	66.5	70.3	68.6	69.7	65.5
600	58.6	62.8	58.8	61.5	62.0	62.2	64.2	63.4	62.0	62.7	63.5	64.4	68.1	66.3	67.4	63.3
800	55.3	60.5	56.4	59.3	59.7	59.8	61.9	61.1	59.6	60.3	61.2	62.1	65.7	64.0	65.1	61.0
1000	53.9	59.1	54.0	56.9	57.4	57.3	59.4	58.7	57.1	57.7	58.8	59.7	63.3	61.5	62.8	58.6
1250	51.1	55.4	51.3	54.1	54.8	54.5	56.6	55.0	54.3	54.9	56.1	57.0	60.6	58.9	60.3	55.9
1500	48.1	52.0	48.4	51.1	51.7	51.5	53.7	52.1	51.2	51.8	53.2	54.2	57.8	56.2	57.9	53.2
2000	43.0	46.6	43.4	46.1	46.8	46.5	48.8	47.2	46.5	47.1	48.5	49.5	53.1	51.5	53.1	48.8
2500	41.4	45.1	41.9	44.6	45.3	45.0	47.4	45.8	45.1	45.7	47.1	48.1	51.7	50.1	51.7	47.4
3150	37.8	42.3	38.3	41.0	41.7	41.4	43.8	42.2	41.5	42.1	43.5	44.5	48.1	46.5	48.1	43.8
4000	32.8	37.3	33.9	36.6	37.3	37.0	39.4	37.8	37.1	37.7	39.1	40.1	43.7	42.1	43.7	39.4
5000	28.1	32.6	29.3	32.0	32.7	32.4	34.8	33.2	32.5	33.1	34.5	35.5	39.1	37.5	39.1	34.8
6000	23.3	28.8	25.5	28.2	28.9	28.6	31.0	29.4	28.7	29.3	30.7	31.7	35.3	33.7	35.3	31.0
8000	20.2	25.2	21.3	24.0	24.7	24.4	26.8	25.2	24.5	25.1	26.5	27.5	31.1	29.5	31.1	26.8
10000	16.9	21.5	17.7	20.4	21.1	20.8	23.2	21.6	20.9	21.5	22.9	23.9	27.5	25.9	27.5	23.2
12500	13.5	17.5	14.3	17.0	17.7	17.4	19.8	18.2	17.5	18.1	19.5	20.5	24.1	22.5	24.1	19.8
15000	10.0	13.6	10.3	13.0	13.7	13.4	15.8	14.2	13.5	14.1	15.5	16.5	20.1	18.5	20.1	15.8
20000	6.5	9.5	6.5	9.3	9.9	9.6	11.3	10.3	9.5	10.1	11.5	12.5	16.1	14.5	16.1	11.3
25000	3.0	5.3	2.8	4.7	5.0	4.7	6.0	5.7	5.2	5.9	6.3	7.5	9.9	8.0	9.3	6.0

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-118 AIRCRAFT
 ENG. R-2000-52H
 GROUND RUNUP
 IDENTIFICATION:
 OMEGA 8.2
 TEST 76-507-002
 RUN 91
 AIRCRAFT CODE 507
 OPERATION CODE 02815
 PROFILE VERSION A
 21 MAY 76
 PAGE J1
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB
 P=PNLT
 A=AL
 T=ALT

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

[illegible]

NOISE PRODUCED ON THE GROUND BY

C-119 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 074
PROFILE VERSION: A
COMPUTER PROGRAM: AN OMEGA

POWER SETTING

<u>POWER SETTING</u>		<u>PAGE</u>
TAKEOFF	39 IN HG, 2900 RPM	179-187
APPROACH	33.6 IN HG, 2600 RPM	188-196
INTERMEDIATE	33.5 IN HG, 2000 RPM	197-205

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLH
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT

SOUND PRESSURE LEVEL SPECTRA
 SINGLE EVENT MEASURES (AL, ALT, PNL, PHLT, SEL, SELT, EFNL)
 SOUND PRESSURE LEVEL SPECTRA
 SINGLE EVENT MEASURES (AL, ALT, PNL, PHLT, SEL, SELT, EFNL)

29 JAN 76

AMERICAN AIR FORCE
BASE, TOKYO

[illegible]

	30	40	50	60	70	80	90	100	
	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB								
F	MEAN
R	SD
E	75.3
Q	3.2
U	77.9
E	3.5
N	76.1
G	5.1
Y	80.3
I	3.3
N	1.3
H	98.8
Z	3.2
	92.6
	3.5
	94.1
	2.2
	92.2
	2.9
	93.4
	1.3
	93.7
9
	91.9
9
	88.4
	1.5
	65.8
	1.3
	84.4
	1.9
	83.0
	1.8
	81.2
	2.2
	79.0
	2.6
	76.8
	3.1
	75.0
	3.4
	71.4
	4.0
	66.8
	4.3
	61.1
	5.0
	54.8

C-119
 AIRSPEED = 135 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 8
 TAKEOFF POWER
 39 IN HG
 2900 RPM
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-074-103-290176
 PNLT = 111.4 PNOB
 PNL = 109.3 PNOB
 ALT = 99.8 OBA
 AL = 97.7 OBA

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATIONS:	TAKEOFF POWER	39 IN HG	2900 RPM	METEOROLOGICAL	TEMP	REL HUMID	59 F	70 %
C-119	AIRSPD = 135 KNOTS	DELTA N	0.0 DB						
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	OMEGA 6.6
200	112.9	114.9	125.3	127.4	111.1	112.8	116.0		
250	110.8	112.9	123.2	125.2	111.7	111.7	114.8		
315	108.7	110.7	121.0	123.0	110.6	110.6	113.6		
400	106.5	108.6	118.8	120.8	109.5	109.5	112.4		
500	104.4	106.5	116.5	118.5	108.3	108.3	111.1		
630	102.2	104.3	114.1	116.2	107.1	107.1	109.8		
800	100.0	102.1	111.7	113.8	105.9	105.9	108.4		
1000	97.7	99.8	109.3	111.4	104.7	104.7	106.9		
1250	95.4	97.5	106.8	108.8	103.3	103.3	105.4		
1600	93.1	95.1	104.2	106.2	102.0	102.0	103.8		
2000	90.7	92.7	101.5	103.5	100.6	100.6	102.1		
2500	88.2	90.2	98.7	100.8	99.1	99.1	100.4		
3150	85.6	87.6	96.0	98.1	97.5	97.5	98.7		
4000	82.9	84.6	93.2	94.9	95.8	95.8	96.5		
5000	80.1	81.3	90.4	91.6	94.1	94.1	94.3		
6300	77.2	78.0	87.4	88.3	92.3	92.3	92.0		
8000	74.1	74.5	84.4	84.8	90.3	90.3	89.6		
10000	70.8	70.8	81.0	81.0	88.2	88.2	86.9		
12500	67.3	67.3	77.5	77.5	86.0	86.0	83.4		
16000	63.6	63.6	73.8	73.8	83.5	83.5	81.7		
20000	59.8	59.8	69.8	69.8	80.8	80.8	78.7		
25000	55.7	55.7	65.6	65.6	77.9	77.9	75.5		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	C-119 TAKEOFF POWER										A										P																			
	39 IN HG 2900 RPM																																							
	AIRSPEED = 135 KNOTS																																							
	TEMP = 59 F REL HUMID = 70 %																																							
	DELTA N = 0.0 DB																																							
	NO. OF RECORDS: 8																																							
	IDENT: 6.6-074-103-290176-A																																							
200	((((((((((((((((((((((((((((((((((((((((
250	((((((((((((((((((((((((((((((((((((((((
315	((((((((((((((((((((((((((((((((((((((((
400	((((((((((((((((((((((((((((((((((((((((
500	((((((((((((((((((((((((((((((((((((((((
630	((((((((((((((((((((((((((((((((((((((((
800	((((((((((((((((((((((((((((((((((((((((
1000	((((((((((((((((((((((((((((((((((((((((
1250	((((((((((((((((((((((((((((((((((((((((
1600	((((((((((((((((((((((((((((((((((((((((
2000	((((((((((((((((((((((((((((((((((((((((
2500	((((((((((((((((((((((((((((((((((((((((
3150	((((((((((((((((((((((((((((((((((((((((
4000	((((((((((((((((((((((((((((((((((((((((
5000	((((((((((((((((((((((((((((((((((((((((
6300	((((((((((((((((((((((((((((((((((((((((
8000	((((((((((((((((((((((((((((((((((((((((
10000	((((((((((((((((((((((((((((((((((((((((
12500	((((((((((((((((((((((((((((((((((((((((
16000	((((((((((((((((((((((((((((((((((((((((
20000	((((((((((((((((((((((((((((((((((((((((
25000	((((((((((((((((((((((((((((((((((((((((

	40	50	60	70	80	90	100	110	120
200	(((((((((
	C-119	TAKEOFF POWER							
250	(	39 IN HG	2949 RPM						
	(	AIR SPEED = 135 KNOTS							
315	(	TEMP = 59 F	REL HUMID = 70 %						
	(	DELTA N = 0.0 DB							
430	(	NO. OF RECORDS: 8							
	(	IDENT: 6.6-074-103-290176-A							
500	(
	(
S 630	(
	(
L 800	(
	(
A 1000	(
	(
T 1250	(
	(
D 1600	(
	(
I 2000	(
	(
S 2500	(
	(
T 3150	(
	(
N 4000	(
	(
F 5000	(
	(
E 6300	(
	(
T 8000	(
	(
10000	(
	(
12500	(
	(
16000	(
	(
20000	(
	(
25000	(

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:			
GROUND-TO-GROUND PROPAGATION																									OMEGA 6.6			
AIRCRAFT:																									A/C CODE: 074			
C-119																									OPS CODE: 103			
																									PROFILE VER: A			
																									29 JAN 76			
																									PAGE L1			
																									METEOROLOGY:			
																									TEMP = 59 F			
																									REL HUMID = 70 %			
																									DELTA N = 0.0 DB			
																									AIRSPEED = 135 KNOTS			
																									FREQUENCY BAND NUMBER			
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
200	84	87	85	89	108	102	102	103	102	103	103	103	102	98	96	95	94	93	91	90	90	88	87	86	87			
250	82	85	83	87	106	100	100	101	101	101	101	101	100	96	94	93	92	91	89	88	88	85	84	83	83			
315	80	83	81	85	104	98	98	99	97	99	99	99	98	94	92	91	90	88	87	86	86	83	81	79	79			
400	78	81	79	83	102	96	96	97	95	97	97	97	95	92	90	89	88	86	85	83	83	80	78	76	75			
500	76	79	77	81	100	93	94	95	93	95	95	95	93	90	88	86	85	84	82	81	80	77	74	72	70			
630	74	77	75	79	97	91	91	93	91	93	93	93	91	88	85	84	83	81	80	78	77	74	71	67	64			
800	72	75	73	77	94	88	88	90	89	91	91	89	86	83	82	81	79	77	75	74	70	67	62	58				
1000	70	73	71	74	92	85	85	87	87	88	89	87	83	81	79	78	76	74	72	70	66	62	56	50				
1250	68	71	68	71	88	82	82	84	84	86	87	85	81	78	77	75	73	71	68	66	62	56	49	40				
1600	66	68	65	67	85	78	78	80	81	84	84	82	79	76	74	73	70	68	64	61	57	50	41	29				
2000	63	64	61	64	81	74	75	76	77	82	82	80	76	73	71	70	67	64	60	56	51	42	31	15				
2500	60	60	57	59	77	70	70	72	73	78	79	77	74	70	68	66	63	60	55	50	44	33	19					
3150	56	56	52	55	72	65	66	67	69	74	76	75	71	67	65	63	59	55	49	43	36	23	4					
4000	51	51	47	49	66	59	60	61	64	69	72	71	63	61	62	59	55	49	43	34	26	10						
5000	46	46	42	44	62	55	55	56	58	64	68	67	64	61	58	54	49	43	35	24	14							
6300	41	41	37	40	57	50	50	51	52	58	64	63	60	57	53	49	43	36	25	11								
8000	39	39	35	37	55	47	48	48	49	55	60	59	50	52	48	43	36	27	14									
10000	37	37	33	35	52	45	45	46	46	52	57	55	51	47	42	35	27	16	0									
12500	34	35	31	33	50	42	42	43	43	48	53	51	46	41	35	27	17	3										
16000	32	33	28	30	47	40	39	39	39	44	48	45	40	34	26	17	5											
20000	30	30	26	28	44	37	36	36	35	40	43	40	33	26	16	4												
25000	28	28	23	25	41	33	32	32	31	35	37	33	25	16	4													

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
GROUND-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	IDENTIFICATION:			
C-119							OMEGA 6.6			
							A/C CODE: 074			
							OPS CODE: 103			
							PROFILE VER: A			
							29 JAN 76			
							PAGE M1			
							DELTA N = 0.3 DB			
							AIRSPEED = 135 KNOTS			
							TEMP = 59 F			
							REL HUMID = 70 %			
							METEOROLOGY:			
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)			
200	107.9	109.9	120.3	122.3	106.1	107.8	110.9			
250	105.8	107.8	118.2	120.2	105.0	106.7	109.8			
315	103.7	105.7	116.0	118.0	103.9	105.6	108.6			
400	101.5	103.6	113.7	115.7	102.7	104.4	107.3			
500	99.4	101.4	111.4	113.4	101.5	103.2	106.0			
630	97.1	99.1	109.0	111.0	100.3	102.0	104.5			
800	94.8	96.8	106.4	108.5	99.0	100.7	103.0			
1000	92.5	94.5	103.8	105.8	97.6	99.3	101.4			
1250	90.0	92.0	101.1	103.1	96.2	97.9	99.6			
1600	87.5	89.5	98.2	100.2	94.7	96.4	97.7			
2000	84.9	86.9	95.1	97.1	93.1	94.8	95.7			
2500	81.9	84.0	91.7	93.7	91.1	92.8	93.3			
3150	78.6	80.7	87.7	89.7	88.8	90.5	90.3			
4000	74.9	76.5	83.3	84.9	86.1	87.5	86.5			
5000	70.7	71.9	78.5	79.8	82.9	83.9	82.5			
6300	66.3	67.1	73.6	74.4	79.4	80.1	78.1			
8000	62.5	62.9	69.7	70.1	76.7	77.0	75.0			
10000	58.4	58.4	65.5	65.5	73.6	73.6	71.4			
12500	54.0	54.0	60.9	60.9	70.2	70.2	67.8			
16000	49.1	49.1	55.9	55.9	66.3	66.3	63.7			
20000	43.7	43.7	50.2	50.2	61.9	61.9	59.1			
25000	37.7	37.7	43.4	43.4	56.9	56.9	53.3			

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	C-119	TAKEOFF POWER	(	A	(	P
250	(	39 IN HG	2900 RPM	(	.	A + .	* P
315	(	AIR SPEED = 135 KNOTS		(	.	A + .	* P
400	(	TEMP = 59 F	REL HUMID = 70 %	(	.	A + .	* P
500	(	DELTA N = 0.0 08		(	.	A + .	* P
630	(	NO. OF RECORDS: 8		(	.	A + .	* P
800	(	IDENT: 6.6-074-103-290176-A		(	.	A + .	* P
1000	(			(	.	A + .	* P
1250	(			(	.	A + .	* P
1500	(			(	.	A + .	* P
1750	(			(	.	A + .	* P
2000	(			(	.	A + .	* P
2250	(			(	.	A + .	* P
2500	(			(	.	A + .	* P
3150	(			(	.	A + .	* P
4000	(			(	.	A + .	* P
5000	(			(	.	A + .	* P
6300	(			(	.	A + .	* P
8000	(			(	.	A + .	* P
10000	(			(	.	A + .	* P
12500	(			(	.	A + .	* P
16000	(			(	.	A + .	* P
20000	(			(	.	A + .	* P
25000	(			(	.	A + .	* P

GROUND TO GROUND
P = PNL
+ = PNL
+ = ALT
A = AL

50	60	70	80	90	100	110	120	130
NOISE LEVEL IN DB								

	20	30	40	50	60	70	80	90	MEAN	SD
50	75.7	3.4
63	81.4	2.6
80	71.5	2.7
100	84.4	2.5
125	91.3	2.2
160	91.7	2.1
200	82.7	2.4
250	83.8	2.5
315	83.6	2.4
400	81.7	1.7
500	78.6	1.6
630	79.4	1.8
800	74.9	1.5
1000	73.1	1.2
1250	73.3	1.1
1600	68.3	1.2
2000	67.3	1.3
2500	65.2	1.3
3150	64.5	1.1
4000	62.5	1.1
5000	58.1	1.0
6300	52.4	1.2
8000	46.2	1.6
10000	39.9	2.1

C-119

APPROACH POWER

2600 RPM

33.6 IN HG

AIRSPEED = 120 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

NO. OF RECORDS = 10

IDENT: 6.6-074-105-290176

PNLT = 100.8 PND9
PNL = 100.0 PND8
ALT = 87.1 D9A
AL = 86.3 DBA

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION											
AIRCRAFT:	OPERATION:		METEOROLOGY:		SELECTION:		SEL		EPNL**		
	(APPROACH POWER		TEMP		(DB)		(DB)		(EPNDB)		
C-119	(33.6 IN HG 2600 RPM		REL HUMID = 70 %								OMEGA 6.6
	(AIRSPEED = 120 KNOTS		DELTA N = 0.0 DB								A/C CODE: 074
											OPS CODE: 105
											PROFILE VER: A
											29 JAN 76
											PAGE 12
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)					
200	101.1	101.9	115.5	116.3	102.4	103.9					107.7
250	99.1	99.9	113.4	114.1	101.4	102.8					106.6
315	97.0	97.8	111.2	112.0	100.3	101.7					105.5
400	94.9	95.7	109.0	109.8	98.2	100.6					104.3
500	92.8	93.6	106.8	107.6	96.1	98.5					103.1
630	90.7	91.5	104.6	105.4	94.0	96.4					101.9
800	88.5	89.3	102.3	103.1	91.8	94.3					100.6
1000	86.3	87.1	100.0	100.8	89.7	92.1					99.2
1250	84.1	84.9	97.6	98.4	87.5	90.0					97.9
1600	81.9	82.7	95.2	96.0	85.2	87.6					96.4
2000	79.6	80.4	92.7	93.5	82.9	85.3					95.0
2500	77.3	78.1	90.2	91.0	80.6	83.0					93.4
3150	74.9	75.7	87.6	88.4	78.2	80.6					91.9
4000	72.4	73.0	84.9	85.5	75.7	78.1					89.9
5000	69.9	70.3	82.2	82.6	73.2	75.6					87.9
6300	67.2	67.5	79.3	79.6	70.7	73.1					85.7
8000	64.5	64.6	76.2	76.4	68.0	70.4					83.3
10000	61.6	61.6	73.0	73.0	65.1	67.5					80.9
12500	58.7	58.7	69.7	69.7	62.2	64.6					78.5
16000	55.5	55.5	66.1	66.1	59.0	61.4					76.0
20000	52.2	52.2	62.3	62.3	55.7	58.1					73.2
25000	48.8	48.8	58.3	58.3	52.3	54.7					70.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

	C-119 APPROACH POWER										S-T-E									
	33.6 IN HG 2600 RPM																			
	AIRSPEED = 120 KNOTS																			
	TEMP = 59 F REL HUMID = 70 %																			
	DELTA N = 0.0 DB																			
	NO. OF RECORDS: 10																			
	IDENT: 6.6-074-105-290176-A																			
200	((((((((((((((((((((
250	((((((((((((((((((((
315	((((((((((((((((((((
400	((((((((((((((((((((
500	((((((((((((((((((((
630	((((((((((((((((((((
800	((((((((((((((((((((
1000	((((((((((((((((((((
1250	((((((((((((((((((((
1600	((((((((((((((((((((
2000	((((((((((((((((((((
2500	((((((((((((((((((((
3150	((((((((((((((((((((
4000	((((((((((((((((((((
5000	((((((((((((((((((((
6300	((((((((((((((((((((
8000	((((((((((((((((((((
10000	((((((((((((((((((((
12500	((((((((((((((((((((
16000	((((((((((((((((((((
20000	((((((((((((((((((((
25000	((((((((((((((((((((

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									
GROUND-TO-GROUND PROPAGATION																									
AIRCRAFT:																									
(OPERATIONS:) METEOROLOGY:)																									
(APPROACH POWER) TEMP = 59 F)																									
(33.6 IN HG 2600 RPM) REL HUMID = 70 %)																									
())																									
(AIRSPEED = 120 KNOTS) DELTA N = 0.0 DB)																									
PAGE L2																									
OMEGA 6.6																									
A/C CODE: 074																									
OPS CODE: 105																									
PROFILE VER: A																									
29 JAN 76																									
IDENTIFICATION:																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									
)																									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:	OPERATION:		APPROACH POWER		METEOROLOGY:				OMEGA 6.6		
C-119	(33.6 IN HG 2600 RPM)		TEMP = 59 F		REL HUMID = 70 %				A/C CODE: 074		
	(AIRSPEED = 120 KNOTS)		DELTA N = 0.0 DB						OPS CODE: 105		
									PROFILE VER: A		
									29 JAN 76		
									PAGE M2		
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	96.1	96.8	110.4	111.1	97.4	98.7	102.6				
250	94.1	94.7	108.3	109.0	96.4	97.7	101.5				
315	92.0	92.7	106.2	106.8	95.3	96.6	100.3				
400	89.9	90.5	103.9	104.6	94.2	95.5	99.1				
500	87.7	88.3	101.5	102.2	93.0	94.3	97.6				
630	85.4	86.0	99.0	99.6	91.7	93.0	96.1				
800	83.0	83.7	96.3	97.0	90.3	91.6	94.4				
1000	80.6	81.3	93.5	94.1	88.9	90.2	92.6				
1250	78.0	78.7	90.4	91.0	87.3	88.6	90.5				
1600	75.3	76.0	87.0	87.7	85.6	86.9	88.2				
2000	72.5	73.2	83.9	84.5	83.8	85.1	86.0				
2500	69.4	70.0	79.9	80.6	81.7	83.0	83.1				
3150	66.0	66.6	75.6	76.3	79.3	80.6	79.8				
4000	62.1	62.7	71.2	71.7	76.4	77.5	75.0				
5000	57.9	58.3	66.3	66.7	73.2	74.0	71.9				
6300	53.5	53.7	61.2	61.5	69.8	70.3	67.6				
8000	49.8	50.0	57.1	57.2	67.1	67.4	64.2				
10000	45.9	45.9	52.6	52.6	64.2	64.2	60.5				
12500	41.7	41.7	47.7	47.7	61.0	61.0	56.5				
16000	37.1	37.1	41.8	41.8	57.4	57.4	51.7				
20000	32.2	32.2	35.4	35.4	53.6	53.6	46.3				
25000	27.1	27.1	27.4	27.4	49.5	49.5	39.3				

	C-119	APPROACH POWER	S-T-E
200	(.)	33.6 IN HG	. . . ST.E
250	(.)	2600 RPM	. . . ST.E
315	(.)	AIRSPED = 120 KNOTS	. . . ST.E
400	(.)	TEMP = 59 F REL HUMID = 70 %	. . . ST.E
500	(.)	DELTA N = 0.0 D3	. . . ST.E
630	(.)	NO. OF RECORDS: 10	. . . ST.E
800	(.)	IDENT: 6.6-074-105-29C176-A	. . . ST.E
1000	(.)		. . . ST.E
1250	(.)		. . . ST.E
1600	(.)		. . . STE
2000	(.)		. . . STE
2500	(.)		. . . SX
3150	(.)		. . . SET
4000	(.)		. . . XT
5000	(.)		. . . EST
6300	(.)		. . . EX
8000	(.)		. . . EX
10000	(.)		. . . EX
12500	(.)		. . . EX
16000	(.)		. . . EX
20000	(.)		. . . EX
25000	(.)		. . . EX

	20	30	40	50	60	70	80	90	MEAN	SD
50	80.9	3.6
63	68.3	6.8
80	71.5	3.4
100	76.1	2.1
125	83.5	2.1
160	77.5	1.8
200	72.6	2.6
250	73.3	1.9
315	71.0	1.9
400	74.0	1.9
500	74.0	1.4
630	72.1	1.3
800	68.7	1.7
1000	66.9	.9
1250	64.9	.9
1600	65.3	1.9
2000	64.5	1.8
2500	63.4	1.9
3150	63.0	2.1
4000	60.5	1.8
5000	56.0	2.7
6300	50.0	2.4
8000	43.9	2.3
10000	37.5	2.4

C-119 INTERMEDIATE POWER 33.5 IN HG 2000 RPM
 AIRSPEED = 150 KNOTS TEMP = 59 F PNLT = 93.7 PND8
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 92.5 PND8
 NO. OF RECORDS = 12 IDENT: 6.6-074-106-290176 ALT = 83.0 DBA
 AL = 78.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:			
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6			
AIRCRAFT:																									A/C CODE: 074			
C-119																									OPS CODE: 106			
																									PRG: ILE VERT A			
																									24 JAN 76			
																									PAGE 13			
																									DELTA N = 0.0 DB			
																									AIRSPEED = 150 KNOTS			
																									TEMP = 59 F			
																									REL HUMID = 70 %			
																									METEOROLOGY:			
																									INTERMEDIATE POWER			
																									33.5 IN HG 2000 RPM			
																									FREQUENCY BAND NUMBER			
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
200	95	82	86	90	98	92	87	88	85	88	89	87	84	82	80	81	81	81	81	81	81	77	74	73	73			
250	93	80	84	88	96	90	85	86	83	86	87	85	82	80	78	79	79	78	79	78	75	72	70	70				
315	91	78	82	86	94	88	83	84	81	84	85	83	80	78	76	77	77	76	77	76	72	69	67	66				
400	89	76	80	84	92	86	81	81	79	82	82	81	77	76	74	75	74	74	74	74	73	69	66	63				
500	87	74	78	82	90	84	79	79	77	80	80	79	75	74	72	72	72	71	72	70	67	62	59	57				
630	85	72	76	80	88	82	77	77	75	78	78	76	73	71	70	70	70	69	69	67	63	59	55	52				
800	83	70	74	78	86	80	75	75	73	76	76	74	71	69	67	68	67	66	66	64	60	55	52	45				
1000	81	68	72	76	84	77	73	73	71	74	74	72	69	67	65	65	65	63	63	61	56	50	44	38				
1250	79	66	70	74	81	75	71	71	69	72	72	70	66	65	62	63	62	60	60	57	52	45	37	28				
1600	77	64	67	72	79	73	68	69	67	70	70	68	64	62	60	60	59	57	56	52	47	39	29	18				
2000	75	62	65	70	77	71	66	67	65	67	67	65	62	59	57	57	55	53	52	47	41	31	19	4				
2500	73	60	63	68	75	69	64	65	62	65	65	63	59	57	54	54	52	49	47	41	34	23	8					
3150	71	58	61	66	73	67	62	62	60	63	62	60	56	54	51	50	48	45	41	34	26	12						
4000	69	56	59	64	71	65	60	60	58	60	60	57	53	51	47	46	43	39	35	26	17							
5000	67	54	57	62	69	63	57	58	55	58	57	54	50	47	43	42	38	33	27	16	6							
6300	64	52	55	59	67	60	55	55	53	55	54	51	46	43	39	37	32	26	16	4								
8000	62	50	53	57	64	58	53	53	50	52	51	48	43	39	34	31	25	17	7									
10000	60	47	51	55	62	55	50	50	47	49	47	44	38	34	28	24	17	7										
12500	58	45	48	53	59	53	47	47	44	45	44	39	33	28	21	16												
16000	56	43	46	50	57	50	44	44	40	41	39	34	27	21	13	6												
20000	54	41	43	47	54	47	41	40	36	37	34	29	20	13	4													
25000	51	38	41	45	51	44	38	37	32	32	26	22	12	3														

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
 < BAND WHICH DETERMINES THE TONE CORRELATION (C).

200	C-119 INTERMEDIATE POWER										A										P									
250	33.5 IN HG 2000 RPM										A										P									
315	AIRSPEED = 150 KNOTS										A										P									
400	TEMP = 59 F REL HUMID = 70 %										A										P									
500	DELTA N = 0.0 DB										A										P									
630	NO. OF RECORDS: 12										A										P									
800	IDENT: 6.6-074-106-290176-A										A										P									
1000											A										P									
1250											A										P									
1600											A										P									
2000											A										P									
2500											A										P									
3150											A										P									
4000											A										P									
5000											A										P									
6300											A										P									
8000											A										P									
10000											A										P									
12500											A										P									
16000											A										P									
20000											A										P									
25000											A										P									
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										
										A										P										

[illegible]

[illegible]

NOISE LEVEL IN DB

1005

97

3

78

69

50

07

30

23

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
(C-119L AIRCRAFT)																			
(ENG. R3350-898)																			
(GROUND RUNUP)																			
(OPERATION:)																			
(IDLE POWER, C-119)																			
(SINGLE ENGINE, 750 RPM)																			
(GROUND RUNUP)																			
(METEOROLOGY:)																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = -3.0 DB)																			
(AIRCRAFT CODE 074)																			
(OPERATION CODE 00213)																			
(PROFILE VERSION A)																			
(18 MAY 76)																			
(PAGE C1)																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	77	76	75	75	76	75	75	75	74	74	75	75	74	74	74	74	72	73	71
63	72	72	72	75	74	75	74	73	73	74	73	71	72	75	71	70	68	66	66
80	67	67	66	68	67	68	67	66	65	65	63	65	65	65	64	65	63	62	62
100	71	69	69	69	66	64	64	63	62	62	63	61	60	62	65	66	64	63	63
125	68	65	68	67	65	64	65	62	60	61	61	61	62	63	63	64	65	62	61
160	68	67	66	67	66	65	65	63	61	60	60	59	59	62	62	64	66	63	61
200	67	66	65	65	62	59	58	58	57	54	50	55	57	57	59	61	63	61	60
250	65	64	63	63	59	57	56	51	50	51	50	53	56	57	59	62	59	53	53
315	63	62	62	62	58	56	55	51	49	49	48	50	52	52	56	58	62	59	58
400	61	61	61	61	58	57	55	56	54	54	54	55	54	54	58	59	62	58	58
500	58	58	58	58	57	55	54	54	56	57	56	56	51	54	57	57	58	55	53
630	54	54	53	53	52	50	50	50	49	51	51	53	53	52	54	54	55	52	51
800	53	53	53	52	51	51	51	49	50	51	52	51	50	52	52	54	49	49	49
1000	52	53	53	52	51	51	50	49	49	49	51	51	51	52	52	52	48	48	48
1250	53	54	53	52	51	53	51	50	50	50	51	51	51	52	52	52	48	48	48
1600	52	52	52	52	51	50	52	51	50	50	52	52	49	52	52	51	47	47	47
2000	51	52	51	51	50	50	50	50	49	52	52	51	49	51	52	53	48	48	48
2500	49	49	49	49	48	48	48	48	48	51	49	49	48	49	50	51	47	46	46
3150	48	48	48	49	47	47	47	47	47	49	47	47	47	49	49	49	46	46	45
4000	47	47	47	47	46	47	47	47	47	48	47	48	45	49	50	49	46	46	45
5000	44	45	44	44	44	45	44	43	44	46	45	45	45	47	46	46	42	41	41
6300	42	42	42	43	43	43	42	41	42	44	44	43	43	46	46	44	41	40	40
8000	39	40	39	40	45	42	40	39	39	43	42	42	42	45	44	44	38	37	37
10000	36	37	35	36	37	37	37	37	36	38	38	39	38	41	39	38	36	35	35
OVERALL	80	79	79	80	79	79	79	78	77	77	78	77	77	79	77	77	76	76	74
XXX< = EXTRAPOLATED OR INTERPOLATED SPL																			

XXX = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
G-119L AIRCRAFT																				
ENG. R3350-093																				
GROUND RUNUP																				
OPERATION:																				
IDLE POWER, C-119																				
SINGLE ENGINE, 750 RPM																				
GROUND RUNUP																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -3.0 DB																				
IDENTIFICATIONS:																				
OMEGA 8.2																				
TEST 74-074-001																				
RUN 01																				
AIRCRAFT CODE 074																				
OPERATION CODE 00213																				
PROFILE VERSION A																				
18 MAY 76																				
PAGE E1																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190
200	83.0	81.7	81.4	81.6	81.8	80.2	80.6	80.4	80.6	79.3	80.8	79.9	79.5	78.8	80.5	80.6	81.4	77.8	77.0	
250	80.7	79.4	79.1	79.2	79.4	77.8	78.1	78.1	78.2	77.3	78.4	77.6	77.2	76.4	78.1	78.3	79.2	75.5	74.8	
315	78.4	77.1	76.7	76.9	77.1	75.3	75.6	75.7	75.9	74.6	76.1	75.2	74.9	74.0	75.7	75.9	76.9	73.2	72.5	
400	76.0	74.6	74.4	74.5	74.6	72.9	73.2	73.3	73.6	72.1	73.6	72.8	72.5	71.5	73.2	73.5	74.6	70.9	70.2	
500	73.4	72.2	72.0	72.1	72.1	70.3	70.6	70.3	71.2	69.6	71.1	70.3	70.0	69.0	70.7	71.0	72.2	68.5	67.8	
630	70.7	69.7	69.5	69.6	69.5	67.6	67.9	68.3	68.6	66.9	68.4	67.7	67.4	66.2	68.0	68.4	69.7	66.0	65.2	
800	68.1	67.1	66.3	67.3	66.9	64.9	65.1	65.7	66.4	64.2	65.6	64.9	64.6	63.4	65.2	65.8	67.1	63.3	62.5	
1000	65.4	64.4	64.2	64.3	64.1	62.0	62.1	62.8	63.1	61.2	62.5	61.9	61.5	60.1	62.3	63.0	64.4	60.4	59.7	
1250	62.4	61.4	61.2	61.3	61.0	58.9	58.3	59.7	60.3	58.1	59.2	58.7	58.2	56.5	59.1	59.9	61.4	57.3	56.5	
1600	59.1	58.0	57.8	57.9	57.5	55.3	55.0	56.2	56.8	54.4	55.6	55.3	54.5	52.4	55.6	56.5	58.2	53.8	53.1	
2000	55.5	54.4	54.2	54.2	53.8	51.4	51.0	52.5	52.9	50.5	51.5	50.7	50.4	48.3	51.7	52.8	54.6	50.1	49.4	
2500	50.8	49.7	49.6	49.5	49.5	46.8	45.9	48.0	48.4	45.9	46.8	45.8	45.6	42.8	46.8	47.8	50.1	45.1	44.2	
3150	45.2	44.1	43.8	43.9	43.0	40.1	39.5	42.1	42.2	39.5	40.4	39.9	39.6	36.2	40.6	42.0	44.4	39.0	38.1	
4000	38.2	37.2	37.1	36.8	37.2	34.0	32.6	35.3	36.1	33.2	34.7	33.8	33.4	28.0	33.6	35.8	38.0	31.8	31.2	
5000	30.3	29.8	29.4	29.0	29.9	26.3	23.4	28.8	28.3	24.4	26.8	26.1	25.6	17.3	24.2	28.1	30.8	20.9	19.6	
6300	19.0	18.4	18.9	18.7	18.1	12.4	7.1	15.5	17.1	11.9	12.8	11.4	10.8	6.5	9.6	17.2	19.4	9.1	6.5	
8000	9.3	8.8	8.3	8.3	8.3	11.2	9.5	11.1	11.0							7.4	11.3			
10000					4.2			3.5	4.9									3.2		
12500																				
16000																				
20000																				
25000																				

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:											IDENTIFICATION:									
(C-119 AIRCRAFT)											(OPGCA 8.2)									
(ENG. R3350-899)											(TEST 74-074-001)									
(GROUND RUNUP)											(RUN 01)									
(IDLE POWER, C-119)											(AIRCRAFT CODE 074)									
(SINGLE ENGINE, 750 RPM)											(OPERATION CODE 00213)									
(GROUND RUNUP)											(PROFILE VERSION A)									
()											(18 MAY 76)									
()											(PAGE F1)									
()											()									
DISTANCE (FEET)											ANGLE (DEGREES)									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	68.1	67.6	67.5	67.3	66.1	64.9	65.0	64.6	64.3	63.3	64.5	64.5	64.3	63.6	65.6	66.4	67.5	64.0	63.1	
250	68.6	68.6	68.4	68.2	64.0	62.8	62.9	62.4	62.2	61.2	62.3	62.3	62.2	61.4	63.4	64.3	65.4	61.9	61.1	
315	63.9	63.5	63.3	63.1	61.9	60.9	60.8	60.3	60.1	59.1	60.2	60.2	60.0	59.3	61.3	62.2	63.3	59.8	59.0	
400	61.0	61.3	61.2	61.0	57.8	56.5	56.3	56.1	55.9	54.9	55.9	55.9	55.8	54.7	56.8	57.8	59.0	55.5	54.8	
500	59.6	59.1	59.0	58.8	57.3	56.2	56.3	55.9	55.7	54.8	55.7	55.7	55.5	54.7	56.8	57.8	59.0	55.5	54.8	
630	57.3	56.8	56.7	56.5	55.3	53.9	54.0	53.6	53.4	52.4	53.3	53.3	53.2	52.4	54.5	55.5	56.7	53.2	52.3	
800	54.9	54.5	54.3	54.1	52.9	51.0	51.6	51.3	51.0	50.0	50.9	50.9	50.9	49.9	52.1	53.1	54.3	50.9	50.0	
1000	52.4	52.0	51.9	51.7	50.5	48.2	49.2	48.9	48.6	47.6	48.5	48.5	48.4	47.4	49.7	50.7	51.9	48.4	47.5	
1250	49.0	48.4	48.3	48.1	47.9	45.5	46.6	46.4	46.2	45.0	45.9	45.9	45.8	44.8	47.1	48.1	49.3	45.8	44.9	
1500	47.0	46.7	46.5	46.3	46.1	43.7	44.8	44.7	44.6	43.4	44.3	44.3	44.2	43.2	45.5	46.5	47.7	44.2	43.3	
2000	44.1	43.3	43.7	43.4	43.2	40.8	41.9	41.8	41.7	40.6	41.5	41.5	41.4	40.4	42.7	43.7	44.9	41.4	40.5	
2500	40.7	40.5	40.4	40.1	39.3	37.5	37.6	37.9	37.6	36.5	37.2	37.2	37.1	36.1	38.4	39.4	40.6	37.1	36.2	
3150	37.0	36.9	36.7	36.4	35.8	34.3	34.1	34.3	34.0	33.1	33.8	33.8	33.7	32.7	35.0	36.0	37.1	33.6	32.7	
4000	33.0	32.9	32.8	32.4	31.9	30.5	30.2	30.5	30.2	29.3	29.9	29.9	29.8	28.8	31.1	32.2	33.3	29.8	28.9	
5000	28.6	28.6	28.5	28.0	27.7	26.2	26.1	26.2	26.2	25.1	25.7	25.7	25.6	24.6	26.9	28.0	29.1	25.6	24.7	
5300	24.1	24.0	24.0	23.4	23.2	21.7	21.6	21.8	21.7	20.7	21.2	21.2	21.1	20.1	22.4	23.5	24.6	21.1	20.2	
8000	20.4	20.3	20.2	19.8	19.6	18.0	17.0	18.0	18.1	16.8	17.4	17.4	17.3	16.3	18.6	19.7	20.8	17.3	16.4	
10000	16.6	16.3	16.2	15.9	15.7	14.1	13.4	14.0	14.2	12.8	13.3	13.3	13.2	12.2	14.5	15.6	16.7	13.2	12.3	
12500	12.5	12.2	12.0	11.9	11.8	10.1	9.1	9.9	10.2	8.6	9.0	9.0	8.9	7.9	10.2	11.3	12.4	8.9	8.0	
16000	8.4	7.9	7.7	7.7	7.3	5.8	4.9	5.6	5.9	4.3	4.0	4.0	4.0	3.0	5.3	6.4	7.5	4.0	3.1	
20000	4.1	3.5	3.3	3.5	2.9	1.6	.8	1.3	1.4	.1	.1	.2	.2	.1	1.1	2.0	3.2	.1	.1	
25000																				

IDENTIFICATIONS:

) OMEGA 8.2

) TEST 74-074-001

) RUN 01

) AIRCRAFT CODE 374

) OPERATION CODE 00213

) PROFILE VERSION A

) 18 MAY 76

) PAGE F1

) METEOROLOGY:

) TEMP = 59 F

) BAR PRESS = 29.92 IN HG

) REL HUMID = 70 %

) DELTA N = -3.0 DB

) ANGLE (DEGREES)

) 150

) 170

) 190

) 210

) 230

) 250

) 270

) 290

) 310

) 330

) 350

) 370

) 390

) 410

) 430

) 450

) 470

) 490

) 510

) 530

) 550

) 570

) 590

) 610

) 630

) 650

) 670

) 690

) 710

) 730

) 750

) 770

) 790

) 810

) 830

) 850

) 870

) 890

) 910

) 930

) 950

) 970

) 990

) 1010

) 1030

) 1050

) 1070

) 1090

) 1110

) 1130

) 1150

) 1170

) 1190

) 1210

) 1230

) 1250

) 1270

) 1290

) 1310

) 1330

) 1350

) 1370

) 1390

) 1410

) 1430

) 1450

) 1470

) 1490

) 1510

) 1530

) 1550

) 1570

) 1590

) 1610

) 1630

) 1650

) 1670

) 1690

) 1710

) 1730

) 1750

) 1770

) 1790

) 1810

) 1830

) 1850

) 1870

) 1890

) 1910

) 1930

) 1950

) 1970

) 1990

) 2010

) 2030

) 2050

) 2070

) 2090

) 2110

) 2130

) 2150

) 2170

) 2190

) 2210

) 2230

) 2250

) 2270

) 2290

) 2310

) 2330

) 2350

) 2370

) 2390

) 2410

) 2430

) 2450

) 2470

) 2490

) 2510

) 2530

) 2550

) 2570

) 2590

) 2610

) 2630

) 2650

) 2670

) 2690

) 2710

) 2730

) 2750

) 2770

) 2790

) 2810

) 2830

) 2850

) 2870

) 2890

) 2910

) 2930

) 2950

) 2970

) 2990

) 3010

) 3030

) 3050

) 3070

) 3090

) 3110

) 3130

) 3150

) 3170

) 3190

) 3210

) 3230

) 3250

) 3270

) 3290

) 3310

) 3330

) 3350

) 3370

) 3390

) 3410

) 3430

) 3450

) 3470

) 3490

) 3510

) 3530

) 3550

) 3570

) 3590

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECTS:																		
C-119L AIRCRAFT																		
ENG. R3350-898																		
GROUND RUNUP																		
(OPERATIONS:																		
(IDLE POWER, C-119																		
(SINGLE ENGINE, 750 RPM																		
(GROUND RUNUP																		
(METEOROLOGY:																		
(TEMP = 59 F																		
(BAR PRESS = 29.92 IN HG																		
(REL HUMID = 73 %																		
(DELTA N = -3.8 DB																		
IDENTIFICATION:																		
OMEGA 6.2																		
TEST 74-074-001																		
RUN 01																		
AIRCRAFT CODE 074																		
OPERATION CODE 00213																		
PROFILE VERSION A																		
10 MAY 76																		
PAGE 61																		
DISTANCE:																		
ANGLE (DEGREES)																		
(FEET)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	68.7	67.6	67.5	67.3	67.3	65.5	65.6	66.3	66.5	65.0	66.1	65.0	65.3	63.6	65.6	66.4	67.5	64.0
250	66.6	65.6	65.4	65.2	63.4	63.5	64.2	64.4	64.4	62.9	64.0	63.4	63.2	61.4	63.4	64.2	65.4	61.1
315	64.5	63.5	63.1	63.1	61.2	61.4	62.0	62.0	62.0	60.7	61.8	61.3	61.0	59.3	61.3	62.2	63.3	59.8
400	62.4	61.3	61.2	61.0	59.1	59.2	59.9	60.1	60.1	58.5	59.6	59.1	58.0	57.0	59.1	60.0	61.2	57.7
500	60.2	59.1	59.0	58.8	56.8	57.0	57.6	57.6	57.6	56.3	57.3	56.3	56.6	54.7	56.8	57.8	59.0	55.5
630	57.9	56.8	56.7	56.5	54.5	54.6	55.3	55.7	55.7	54.0	55.0	54.3	54.3	52.4	54.5	55.5	56.7	53.2
800	55.5	54.5	54.3	54.1	52.2	52.3	53.0	53.2	53.2	51.6	52.6	52.2	51.9	49.3	51.1	53.1	54.3	50.0
1000	53.0	52.0	51.9	51.7	49.8	49.8	50.6	50.0	49.2	50.1	49.7	49.5	47.0	47.0	49.7	50.7	51.9	46.4
1250	50.4	49.4	49.3	49.1	47.2	47.2	48.1	48.3	46.7	47.5	47.2	46.9	44.8	44.8	47.1	48.1	49.3	45.0
1600	47.6	46.7	46.5	46.3	44.5	44.5	45.4	45.7	44.1	44.8	44.5	44.3	42.0	42.0	44.4	45.4	46.7	43.1
2000	44.7	43.8	43.7	43.4	41.7	41.7	42.7	43.0	41.3	42.0	41.7	41.5	39.0	39.0	41.5	42.7	43.9	40.2
2500	41.3	40.5	40.4	40.1	38.5	38.5	39.6	40.3	38.2	38.3	38.6	38.4	35.7	35.7	38.3	39.5	40.6	36.1
3150	37.6	36.9	36.7	36.4	34.9	34.9	36.1	36.5	34.7	35.4	35.2	34.9	32.2	32.2	34.7	36.0	37.1	33.4
4000	33.5	32.9	32.8	32.4	30.9	30.9	31.9	32.2	30.6	31.3	31.2	30.9	28.4	28.4	30.9	32.2	33.1	29.4
5000	29.0	28.6	28.5	28.0	26.6	26.6	27.3	27.5	26.1	26.7	26.9	26.6	24.2	24.2	26.7	28.0	28.7	25.0
6300	24.3	24.0	23.4	23.7	22.0	21.8	22.9	22.6	21.3	21.9	22.2	21.9	19.7	19.7	22.2	23.6	24.2	20.5
8000	20.5	20.3	20.2	19.8	18.1	17.7	18.3	18.5	17.2	17.7	18.0	17.7	15.7	15.7	18.3	19.7	20.5	16.8
10000	16.6	16.3	16.2	15.9	14.1	13.4	14.0	14.2	12.8	13.3	13.6	13.3	11.5	11.5	14.2	15.6	16.6	13.0
12500	12.5	12.2	12.0	11.9	10.1	9.1	9.9	10.2	8.6	9.0	9.2	8.9	7.2	7.2	9.8	11.3	12.4	8.9
16000	8.4	7.9	7.7	7.3	5.8	4.9	5.6	5.9	4.3	4.6	4.7	4.4	2.8	2.8	5.4	6.7	7.9	4.6
20000	4.1	3.5	3.3	3.5	2.9	1.6	1.3	1.4	.1	.1	.2	.1	1.1	1.1	2.0	3.2	.1	.1
25000																		

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECTS:
 (C-119L AIRCRAFT
 (ENG. R3350-893
 (GROUND RUNUP
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST 74-074-081
 (RUN 01
 (AIRCRAFT CODE 874
 (OPERATION CODE 00213
 (PROFILE VERSION A
 (18 MAY 76
 (PAGE J1
 (

(METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (WIND NUMID = 79 K
 (DELTA N = -3.0 DB
 (

(PPMNLY
 (

(REAL
 (

(T-FACT
 (

ANGLE IN DEGREES	0	10	20	30	40	50	60	70	80	90
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
C-119L AIRCRAFT																
ENG. R3350-838																
GROUND RUNUP																
OPERATION:																
TAXI POWER, C-119																
SINGLE ENGINE, 1000 RPM																
GROUND RUNUP																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -3.0 DB																
AIRCRAFT CODE 074																
OPERATION CODE 00215																
PROFILE VERSION A																
18 MAY 76																
PAGE C2																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 170 >180
50	73	74	75	74	75	73	74	72	72	71	70	69	73	73	73	71 51
63	77	77	77	79	80	81	81	79	75	76	77	78	80	79	77	75 52
80	76	75	74	75	72	72	72	70	69	69	68	68	69	70	71	70 68 48
100	76	76	77	74	72	70	71	74	71	71	69	70	70	72	73	70 69 49
125	76	75	75	73	69	67	67	69	65	65	67	69	67	67	68	69 67 47
160	76	75	75	73	70	68	69	66	63	64	63	67	68	66	68	70 67 47
200	75	74	73	70	66	64	63	60	59	61	61	62	64	64	65	67 66 46
250	73	72	69	64	60	58	55	56	55	55	57	58	59	61	64	66 65 45
315	71	71	70	67	61	58	54	53	53	56	57	56	59	61	64	65 64 44
400	69	69	68	66	63	57	57	57	57	59	60	58	58	61	64	64 63 43
500	65	66	65	63	62	59	57	60	59	60	61	58	57	59	63	61 60 40
630	62	61	61	60	59	57	56	54	57	55	56	56	58	58	61	58 57 37
800	61	60	59	58	57	55	54	54	54	54	55	56	56	57	59	57 56 36
1000	60	59	61	59	57	55	56	54	56	54	55	56	55	56	58	56 55 35
1250	60	59	61	58	56	55	56	54	57	54	55	55	55	54	56	55 53 33
1600	59	58	59	57	56	54	55	54	57	54	55	55	55	54	55	53 52 32
2000	57	56	57	56	55	54	54	53	57	54	55	54	54	53	55	53 52 32
2500	56	55	56	55	53	52	53	52	55	51	52	52	53	52	53	51 51 31
3150	55	54	55	54	53	51	52	52	54	51	53	51	52	52	53	51 51 31
4000	55	53	55	54	53	52	52	54	52	52	53	52	53	52	53	51 50 30
5000	52	51	52	51	50	49	49	48	51	48	49	47	49	46	49	47 46 26
6300	51	49	51	49	48	47	47	49	47	46	47	46	47	46	49	45 44 24
8000	48	45	48	47	46	45	46	46	44	44	45	45	46	45	48	42 41 21
10000	44	42	45	43	42	42	41	40	40	40	40	41	40	41	41	39 38 18
OVERALL	85	84	85	83	83	82	83	81	81	78	79	80	82	82	81	80 78 58

XXX = EXTRAPOLATED OR INTERPOLATED SPL
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-119L AIRCRAFT																			
ENG. R3350-898																			
GROUND RUNUP																			
OPERATION:																			
TAXI POWER, C-119																			
SINGLE ENGINE, 1000 RPM																			
GROUND RUNUP																			
TEMP																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = -3.0 DB																			
METEOROLOGY:																			
TEMP																			
AIRCRAFT CODE 074																			
OPERATION CODE 00215																			
PROFILE VERSION A																			
10 MAY 76																			
PAGE 02																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-874-881																			
RUN 02																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.2	89.2	89.5	87.4	85.9	85.8	85.0	83.5	84.7	81.9	83.0	83.4	83.4	84.7	84.4	85.0	84.2	82.8	81.5
250	87.9	87.0	87.2	85.1	83.5	82.6	82.6	81.1	82.3	79.6	80.7	81.1	81.9	82.3	82.8	82.6	81.9	80.6	79.1
315	85.7	84.7	84.3	82.7	81.6	80.1	80.1	78.6	79.9	77.1	78.3	78.8	79.4	79.8	79.5	82.3	79.6	78.3	76.5
400	83.2	82.3	82.5	80.3	78.5	77.6	77.5	76.1	77.4	74.7	75.8	76.4	76.9	77.3	77.8	78.0	77.3	76.0	74.8
500	80.7	79.9	80.1	77.9	75.9	75.0	74.9	73.5	74.9	72.1	73.2	73.9	74.3	74.7	74.4	75.6	74.9	73.6	71.8
630	78.6	77.4	77.5	75.2	73.3	72.3	72.3	70.8	72.3	69.5	70.6	71.3	71.7	72.8	71.7	73.1	72.5	71.2	68.8
800	75.3	74.8	74.9	72.6	70.6	69.5	69.5	68.0	69.6	66.8	67.8	68.5	67.9	69.2	69.0	70.5	69.9	68.6	64.7
1000	72.6	72.1	72.2	69.9	67.9	66.6	66.6	65.1	66.7	63.9	64.9	65.7	65.8	66.3	66.1	67.8	67.2	65.9	61.4
1250	69.7	69.1	69.2	67.0	64.9	63.5	63.5	61.9	63.5	60.6	61.7	62.5	61.8	63.2	63.0	64.9	64.3	63.0	59.1
1500	66.6	66.1	66.1	64.0	61.8	59.6	59.6	58.1	60.1	57.1	58.4	59.2	58.2	59.3	59.7	61.7	61.2	59.8	55.3
2000	63.3	62.6	62.8	60.5	58.1	55.4	55.0	54.3	56.1	53.3	54.7	55.5	54.2	56.7	56.8	58.1	57.6	56.2	52.5
2500	59.8	58.5	58.5	56.1	53.7	50.9	50.0	50.0	51.8	49.0	50.4	51.4	49.8	52.9	51.4	53.8	53.2	51.7	48.3
3150	54.6	53.5	53.4	50.9	48.4	45.6	44.3	44.4	46.5	43.6	45.1	46.4	44.5	48.3	45.7	48.7	48.0	46.3	42.9
4000	48.2	47.6	47.4	44.8	42.2	38.9	37.6	37.9	39.9	37.2	39.0	40.2	37.8	41.8	39.1	42.9	41.4	40.0	36.6
5000	41.4	41.4	41.4	38.0	35.4	31.8	30.3	31.2	33.7	30.9	32.6	33.9	31.2	36.9	32.6	36.2	34.2	33.2	30.0
6300	34.4	34.2	33.6	30.5	27.8	22.5	20.6	21.5	25.3	20.0	23.7	25.5	21.5	29.9	22.5	28.9	25.6	23.7	20.6
8000	27.8	28.0	26.9	22.3	19.6	13.9	6.7	11.8	15.8	10.6	15.5	17.1	11.2	7.0	14.5	22.0	18.3	17.1	14.1
10000	19.5	19.5	17.4	14.1	9.7	5.2		2.0	6.9	1.1	7.3	8.3	.9		6.5	12.5	7.9	6.9	3.1
12500	10.4	11.7	9.5	5.8															
16000	1.4	3.3	1.6																
20000																			
25000																			
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PND8)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-119L AIRCRAFT																
ENG. R3450-893																
GROUND RUNUP																
OPERATION:																
TAXI POWER, C-119																
SINGLE ENGINE, 1000 RPM																
GROUND RUNUP																
METEOROLOGY:																
TEMP																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -3.0 DB																
DISTANCE (FEET)																
ANGLE (DEGREES)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
230	90.2	89.2	83.5	87.4	85.9	85.3	85.6	84.4	85.2	83.3	83.6	83.4	83.4	84.7	84.9	85.5
250	87.9	87.3	87.2	85.1	83.5	82.6	83.2	82.4	82.8	80.7	81.3	81.1	80.9	82.3	82.5	83.1
315	85.7	84.7	84.9	82.7	81.0	80.1	80.7	79.9	80.4	78.2	79.0	78.8	78.4	79.9	80.9	80.9
400	83.2	82.3	82.5	80.3	78.5	77.6	78.1	77.4	78.0	75.8	76.5	76.4	75.9	77.3	77.5	78.5
500	80.7	79.9	80.1	77.9	75.9	75.0	75.5	74.8	75.4	73.2	74.0	73.9	73.3	74.7	74.9	76.1
630	78.0	77.4	77.5	75.2	73.3	72.3	72.9	72.1	72.6	70.6	71.3	71.3	70.7	72.0	72.3	73.6
800	75.3	74.8	74.9	72.6	70.6	69.5	70.1	69.3	70.1	67.9	68.5	68.5	67.9	69.2	69.5	71.0
1000	72.6	72.1	72.2	69.9	67.9	66.6	67.2	65.4	67.2	65.0	65.6	65.7	65.0	66.3	66.6	68.3
1250	69.7	69.1	69.2	67.4	65.4	63.5	64.1	63.2	64.1	61.7	62.4	62.5	61.8	63.2	63.5	65.4
1600	66.6	66.1	66.1	64.0	61.8	59.6	60.1	59.4	60.6	58.2	59.1	59.2	58.2	59.3	59.6	61.3
2000	63.3	62.8	62.8	60.5	58.1	55.4	55.6	55.6	56.6	54.4	55.4	55.5	54.2	54.7	56.5	58.7
2500	59.0	58.5	58.5	56.1	53.7	50.2	50.6	51.3	52.3	50.1	51.1	51.4	49.8	49.9	51.9	54.3
3150	54.0	53.5	53.4	50.9	48.4	45.6	45.9	45.7	47.1	44.8	45.8	46.4	44.5	44.3	46.3	49.2
4000	48.2	47.6	47.4	44.8	42.2	38.9	38.1	39.0	40.3	38.1	39.5	40.2	37.9	37.8	39.5	43.3
5030	41.4	41.4	41.4	38.0	35.4	31.8	30.7	32.0	34.4	31.5	32.9	33.9	31.2	29.9	33.0	36.5
6300	34.4	34.2	33.6	30.5	27.8	22.5	20.9	22.1	26.1	23.4	23.9	26.5	21.5	19.3	22.7	29.1
8000	27.8	28.0	26.9	22.3	19.8	13.9	6.8	12.1	15.9	10.8	15.6	17.1	11.2	7.0	14.0	22.1
10300	19.5	19.5	17.4	14.1	9.7	5.2		2.0	6.9	1.1	7.3	8.3	.9		6.5	12.5
12500	13.4	11.7	9.5	5.8												3.1
16000	1.4	3.8	1.6													
20000																
25000																

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (D3A)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-119L AIRCRAFT																				
ENG. #335L-893																				
GROUND RUNUP																				
DISTANCE (FEET)																				
ANGLE (DEGREES)																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
240	75.0	75.1	75.1	72.9	74.8	70.0	68.3	67.9	69.9	67.4	66.5	69.2	68.4	68.7	69.0	71.0	70.2	69.2	49.2	
250	73.6	73.0	73.0	70.8	69.7	66.9	66.8	65.8	67.8	65.3	64.3	67.1	66.3	66.6	66.9	68.9	68.2	67.1	47.1	
315	71.5	70.9	70.9	68.7	66.6	64.8	64.0	63.6	65.6	63.1	62.2	64.9	64.2	64.5	64.8	66.8	66.1	65.0	45.0	
400	69.4	68.8	68.8	66.6	64.4	62.6	62.4	61.4	63.4	60.9	60.0	62.7	62.0	62.3	62.6	64.6	63.9	62.9	42.9	
500	67.1	66.6	66.6	64.4	62.2	60.4	60.2	59.2	61.2	58.7	57.8	60.5	59.7	60.4	60.4	62.4	61.7	60.7	40.7	
630	64.8	64.3	64.3	62.1	59.9	58.1	57.4	56.9	58.9	56.4	55.5	58.2	57.4	57.7	58.1	60.2	59.5	58.4	38.4	
800	62.4	62.0	61.9	59.7	57.6	55.7	55.4	54.5	56.4	54.0	53.1	55.9	55.0	55.3	55.8	57.9	57.1	56.1	36.1	
1000	59.9	59.4	59.4	57.2	55.1	53.3	53.0	52.0	53.9	51.5	50.6	53.4	52.6	52.8	53.4	55.5	54.7	53.6	33.6	
1250	57.3	56.9	56.8	54.6	52.6	50.7	50.4	49.5	51.3	49.0	48.1	50.9	50.2	50.4	50.8	52.9	52.1	51.1	31.1	
1500	54.5	54.1	54.0	51.8	49.9	47.9	47.6	46.7	48.6	46.3	45.4	48.2	47.3	47.4	48.1	50.3	49.4	48.4	28.4	
2000	51.5	51.3	51.1	49.0	47.1	45.1	44.6	43.7	45.6	43.3	42.4	45.2	44.3	44.5	45.3	47.6	46.6	45.6	25.6	
2500	48.2	47.9	47.7	45.7	43.9	41.9	41.4	40.7	42.6	40.3	39.4	42.2	41.3	41.4	42.2	44.5	43.4	42.4	22.4	
3150	44.5	44.2	44.1	42.1	40.5	38.5	38.0	37.3	39.2	37.0	36.1	38.9	38.0	38.1	38.7	41.1	39.8	38.9	19.9	
4000	43.4	43.2	43.1	41.2	39.6	37.6	37.1	36.4	38.3	36.1	35.2	38.0	37.1	37.2	37.8	40.2	38.9	38.0	17.0	
5000	36.1	35.8	35.7	33.9	32.5	30.6	30.1	29.3	31.3	29.2	28.3	31.2	30.3	30.4	30.9	33.3	32.0	31.0	15.0	
6300	31.5	31.2	31.2	29.5	28.1	26.2	25.7	24.9	26.9	24.8	23.9	26.8	25.7	25.8	26.3	28.8	27.1	26.2	12.2	
8000	27.9	27.6	27.5	25.7	24.3	22.4	21.7	21.0	22.9	20.8	20.0	22.9	21.7	21.8	22.4	25.0	23.4	22.5	9.5	
10000	24.0	23.8	23.5	21.7	20.3	18.3	17.5	17.0	18.6	16.7	15.8	18.6	17.5	17.6	18.2	21.0	19.5	18.6	6.6	
12500	19.9	19.8	19.3	17.5	16.0	14.0	13.1	12.7	14.2	12.3	11.4	14.2	13.0	13.1	13.7	16.7	15.3	14.4	3.3	
15000	15.6	15.5	14.9	13.1	11.6	9.6	8.7	8.4	9.9	7.6	6.7	9.7	8.4	8.6	9.0	12.1	10.8	9.8	0.0	
20000	11.2	11.0	10.5	8.5	7.1	5.3	4.5	4.1	4.3	2.9	2.0	4.8	3.8	4.3	5.2	7.2	6.2	5.1	-3.1	
25000	6.6	6.3	6.0	4.0	2.6	1.2	.7	.3	.3	.3	.3	.4	.4	.4	.9	2.2	1.5	.1	-6.1	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 6
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)[illegible]

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-119L AIRCRAFT
 ENG. R3350-89B
 GROUND RUNUP
 (OPERATION:)
 (TAXI POWER, C-119)
 (SINGLE ENGINE, 1400 RPM)
 (GROUND RUNUP)
 (METEOROLOGY:)
 (TEMP = 59 F)
 (BAR PRESS = 29.92 IN HG)
 (REL HUMID = 70 %)
 (DELTA N = -3.0 DB)
 IDENTIFICATION:
 OMEGA 8.2
 TEST 74-874-001
 RUN 02
 AIRCRAFT CODE 874
 OPERATION CODE 80215
 PROFILE VERSION A
 18 MAY 76
 PAGE J2

	P=PNLT										A=AL	T=ALT									
	0	10	20	30	40	50	60	70	80	90		0	10	20	30	40	50	60	70	80	90
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
(C-119L AIRCRAFT)																		
(ENG. R3350-89B)																		
(GROUND RUNUP)																		
(OPERATION:)																		
(PROP SPEED CHECK, C-119)																		
(SINGLE ENGINE, 1800 RPM)																		
(GROUND RUNUP)																		
METEOROLOGY:)																		
TEMP = 59 F)																		
BAR PRESS = 29.92 IN HG)																		
REL HUMID = 70 %)																		
DELTA N = -3.0 DB)																		
AIRCRAFT CODE 074)																		
OPERATION CODE 00236)																		
PROFILE VERSION A)																		
18 MAY 76)																		
PAGE C3)																		
BAND CENTER																		
FREQ (HZ)																		
ANGLE (DEGREES)																		
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180																		
50	75	74	75	74	75	73	73	72	71	73	75	75	74	73	70	70	68	48
63	80	79	82	82	84	83	84	82	79	78	81	79	81	81	77	77	76	56
80	95	90	92	90	91	89	90	89	87	86	86	87	88	87	87	87	78	58
100	88	89	91	91	85	86	92	93	91	91	89	87	88	86	86	86	78	58
125	93	90	92	92	85	81	83	82	82	81	82	81	81	80	82	85	84	57
150	94	92	92	88	83	81	83	84	82	82	83	84	82	80	78	81	84	56
200	92	90	89	85	80	81	82	79	78	78	79	79	76	77	79	81	75	55
250	92	91	89	87	83	80	77	78	76	71	73	75	76	75	81	78	75	55
315	89	88	86	87	83	79	73	70	63	67	69	70	72	72	74	81	80	55
400	88	86	85	83	83	77	77	73	68	69	74	74	73	74	75	81	80	56
500	85	83	83	82	81	77	78	75	72	73	78	77	76	74	74	81	78	56
630	81	81	80	77	78	75	77	75	73	73	76	77	74	73	79	78	76	56
800	80	79	80	77	78	75	76	76	75	75	76	74	72	73	78	75	75	55
1000	79	78	79	78	77	75	74	77	76	72	75	74	73	70	76	73	72	52
1250	78	77	79	78	78	74	74	77	75	72	74	73	73	69	74	71	69	49
1600	78	77	78	77	77	74	74	77	77	71	74	72	72	70	68	72	67	47
2000	76	76	77	76	75	73	73	76	74	69	72	70	68	66	68	67	63	43
2500	75	75	75	75	75	72	72	75	73	67	71	70	68	65	66	64	60	40
3150	74	74	75	74	74	72	72	75	72	67	69	68	67	64	62	63	59	39
4000	75	75	75	75	76	72	71	75	71	67	68	67	66	64	61	62	58	38
5000	72	72	73	73	74	71	69	73	68	65	65	65	63	61	59	60	59	36
6300	71	71	72	73	74	70	68	72	67	63	62	63	61	59	57	57	54	34
8000	69	69	70	71	72	68	65	69	65	61	60	60	59	56	54	55	54	31
10000	65	66	66	67	68	63	62	65	60	57	56	55	54	52	50	50	47	27
OVERALL	101	99	100	98	96	94	96	90	94	93	93	93	92	91	93	93	87	67

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-119L AIRCRAFT																			
ENG. R3350-898																			
GROUND RUNUP																			
OPERATIONS:																			
PROP SPEED CHECK, C-119																			
SINGLE ENGINE, 1900 KPH																			
GROUND RUNUP																			
METEOROLOGY:																			
TEMP = 53 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
IDENTIFICATIONS:																			
OMEGA 8.2																			
TEST 74-874-001																			
RUN 03																			
AIRCRAFT CODE 874																			
OPERATION CODE 00236																			
PROFILE VERSION A																			
10 MAY 76																			
PAGE 03																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.4	107.1	107.1	106.3	105.4	102.3	102.7	104.2	101.7	99.9	103.4	99.6	99.4	97.5	97.0	100.1	99.2	94.9	74.1
250	106.3	105.0	105.0	104.0	103.1	100.0	100.0	102.0	99.6	97.7	98.3	97.5	97.2	95.4	94.0	97.9	97.1	92.7	71.9
315	104.1	102.8	102.8	101.7	100.8	97.8	98.4	99.7	97.4	95.5	96.1	95.3	95.0	93.2	92.5	95.6	94.9	90.3	69.7
400	101.9	100.6	100.6	99.5	98.4	95.4	96.1	97.3	95.1	93.3	93.8	93.0	92.8	90.9	90.1	93.6	92.7	88.3	67.3
500	99.6	98.3	98.2	97.1	95.8	92.9	93.8	96.9	92.7	90.3	91.5	90.7	90.5	88.5	87.7	91.3	90.4	85.9	65.0
630	97.0	95.7	95.7	94.6	93.1	90.2	91.4	92.5	90.3	88.5	89.1	88.2	88.0	86.0	85.1	88.9	88.0	83.5	62.5
800	94.3	93.0	93.0	92.0	90.3	87.4	88.7	89.8	87.7	85.9	86.4	85.4	85.2	83.2	82.5	86.4	85.5	81.0	59.9
1000	91.5	90.1	90.2	89.2	87.5	84.6	85.7	86.8	84.5	82.8	83.3	82.3	82.1	80.1	79.7	83.8	82.9	78.5	57.0
1250	88.6	86.9	87.2	86.3	84.6	81.2	82.3	83.3	81.1	79.3	79.9	78.9	78.8	75.8	75.8	76.4	81.0	80.1	54.0
1600	85.6	83.9	84.2	83.2	81.5	77.9	78.6	79.6	77.8	75.6	76.5	76.2	75.4	72.2	72.2	73.4	78.1	77.1	50.9
2000	82.4	80.7	80.9	80.0	78.3	74.4	74.9	76.0	74.3	71.6	73.3	73.1	72.2	70.4	70.4	71.2	75.1	74.0	47.3
2500	78.5	76.7	77.0	76.0	74.3	70.7	71.3	72.1	70.3	67.1	69.7	69.5	68.6	66.8	66.8	67.3	71.4	70.1	42.7
3150	74.0	72.3	72.5	71.5	69.9	66.4	67.0	67.8	66.2	62.6	65.5	65.4	64.6	62.8	62.8	63.4	67.4	65.8	38.1
4000	69.1	67.5	67.7	66.5	65.0	61.9	62.3	63.0	61.5	57.9	60.9	60.9	59.6	57.8	57.2	60.8	61.0	58.0	32.9
5000	64.1	62.5	62.6	61.4	60.0	56.5	57.2	57.7	56.3	52.8	55.8	55.8	54.4	52.6	52.0	53.0	58.0	56.1	25.6
6300	58.9	57.2	57.4	56.1	54.6	50.9	51.7	51.9	50.5	46.9	50.3	50.4	49.8	46.7	46.1	52.8	50.7	47.5	16.2
8000	54.6	53.1	53.2	51.8	50.2	45.9	47.0	46.4	44.4	41.2	45.4	45.1	43.9	41.5	40.8	46.6	46.2	42.7	6.8
10000	50.4	48.5	48.5	47.0	45.0	40.1	41.0	39.6	37.6	34.9	39.7	39.2	37.9	35.3	34.9	43.2	41.1	37.1	
12500	45.3	43.0	43.3	41.6	39.8	33.0	34.0	32.6	30.3	27.9	33.4	32.9	31.1	28.7	28.4	37.6	34.3	31.4	
16000	39.5	37.0	37.0	35.8	32.3	26.2	27.8	24.3	18.4	17.6	26.0	25.9	23.3	20.7	20.2	31.3	28.2	23.5	
20000	32.8	31.1	31.1	27.2	23.5	15.7	17.8	9.9	6.7	7.4	15.4	15.1	11.3	8.1	7.4	22.0	18.4	12.2	
25000	23.7	18.3	15.9	10.1	11.6	5.3	7.8				4.8	4.2				9.1	8.5	5.9	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-119L AIRCRAFT																
ENS. R3350-892																
GROUND RUNUP																
OPERATION:																
PROP SPEED CHECK, C-119																
SINGLE ENGINE, 1800 RPM																
GROUND RUNUP																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-074-001																
AIRCRAFT CODE 074																
OPERATION CODE 00236																
PROFILE VERSION A																
18 MAY 76																
PAGE F3																
DISTANCE (FEET)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 170 180
230	94.2	92.9	93.0	91.9	90.8	87.6	87.7	89.4	87.5	84.2	86.4	85.1	85.0	83.2	82.6	87.8 86.1 83.3 63.3
250	92.2	90.8	90.9	89.7	88.6	85.5	85.6	87.2	85.3	82.1	84.3	83.0	82.9	81.1	80.6	85.8 84.1 81.3 61.3
315	90.1	88.7	88.8	87.6	86.4	83.3	83.4	84.9	83.2	79.9	82.2	80.9	80.7	79.0	78.5	83.7 82.0 79.2 59.2
400	87.9	86.6	86.6	85.4	84.2	81.0	81.2	82.7	80.9	77.7	80.0	78.7	78.6	76.8	76.3	81.6 79.9 77.1 57.1
500	85.7	84.3	84.4	83.2	81.9	78.8	79.0	80.3	78.6	75.5	77.8	76.5	76.4	74.6	74.2	79.4 77.7 74.9 54.9
630	83.4	82.0	82.0	80.9	79.6	76.4	76.6	77.9	76.3	73.2	75.5	74.1	74.1	72.4	71.9	77.2 75.5 72.8 52.8
800	81.6	79.6	79.6	78.5	77.2	74.0	74.3	75.4	73.9	70.8	73.2	71.8	71.8	70.1	69.6	75.0 73.3 70.5 50.5
1030	78.6	77.2	77.2	76.0	74.7	71.5	71.8	72.0	71.3	68.3	70.7	69.3	69.3	67.6	67.3	72.7 70.9 68.2 48.2
1250	75.9	74.5	74.5	73.4	72.1	68.9	69.2	70.1	68.7	65.7	68.2	66.8	66.8	65.1	64.8	70.3 68.4 65.9 45.9
1500	73.2	71.8	71.8	70.7	69.5	66.1	66.5	67.3	65.9	62.9	65.6	64.4	64.1	62.5	62.2	67.8 65.9 63.4 43.4
2000	70.4	68.9	68.9	67.8	66.7	63.3	63.7	64.3	63.0	60.0	62.9	61.4	61.4	59.8	59.5	65.2 63.3 60.9 40.9
2500	67.1	65.7	65.8	64.6	63.6	60.2	60.7	61.2	59.9	57.0	59.9	58.6	58.4	56.8	56.5	62.2 60.2 58.0 38.0
3150	63.5	62.2	62.3	61.0	60.2	56.8	57.4	57.8	56.6	53.8	56.7	55.6	55.1	53.5	53.2	59.0 56.9 54.9 34.9
4000	59.5	58.3	58.4	57.1	56.4	53.1	53.8	54.1	52.9	50.2	53.1	52.1	51.5	49.9	49.5	55.4 53.2 51.4 31.4
5000	55.2	54.0	54.2	52.8	52.2	49.0	49.7	50.0	48.9	46.2	49.1	48.1	47.5	45.8	45.5	51.3 49.0 47.4 27.4
6300	50.7	49.5	49.8	48.3	47.8	44.5	45.3	45.6	44.6	41.9	44.8	43.8	43.1	41.4	41.1	47.0 44.6 43.1 23.1
8030	47.0	45.8	45.9	44.4	43.8	40.6	41.4	41.3	40.2	37.8	40.8	39.9	39.1	37.5	37.3	43.2 40.9 39.3 19.3
10000	43.1	41.8	41.8	40.3	39.6	36.3	37.2	36.7	35.4	33.5	36.4	35.6	34.8	33.4	33.1	39.1 36.9 35.2 15.2
12500	38.9	37.5	37.4	36.0	35.1	31.7	32.7	31.8	30.4	28.8	31.8	30.9	30.2	28.8	28.6	34.6 32.6 30.7 10.7
15000	34.5	32.9	32.8	31.4	30.2	26.8	27.9	26.6	25.0	23.9	27.0	26.3	25.3	24.0	23.8	29.8 27.9 25.6 5.6
20000	29.8	28.1	27.9	26.6	25.0	21.5	22.8	21.4	19.8	18.8	21.4	20.6	20.1	18.9	18.7	24.4 22.8 20.1 .1
25000	24.8	22.9	22.9	21.6	19.6	16.2	17.5	16.4	14.4	14.0	15.9	14.9	14.9	13.6	13.5	17.4 16.7 14.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

C-119L AIRCRAFT

ENG. R3350-893

GROUND RUNUP

OPERATION:

PROP SPEED CHECK, C-119

SINGLE ENGINE, 1800 RPM

GROUND RUNUP

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-074-001

RUN 03

AIRCRAFT CODE 074

OPERATION CODE 00235

PROFILE VERSION A

18 MAY 76

PAGE J3

ANGLE IN DEGREES	PAPNLT											A=AL					T=ALTY				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNOL)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-119L AIRCRAFT																
ENG. R3350-893																
GROUND RUNUP																
OPERATION:																
MAGNETO CHECK, C-119																
SINGLE ENGINE, 2100 RPM																
GROUND RUNUP																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 76-074-001																
AIRCRAFT CODE 074																
OPERATION CODE 00200																
PROFILE VERSION A																
10 MAY 76																
PAGE 04																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	119.7	119.1	111.0	110.2	108.9	105.8	109.7	109.2	106.4	105.1	106.3	104.1	104.8	102.8	103.5	101.1
250	108.5	106.9	108.9	107.9	106.6	103.0	107.4	106.9	104.1	103.0	104.1	102.0	102.6	100.7	101.4	98.9
315	106.3	104.8	106.7	105.0	104.3	101.4	105.0	104.6	101.8	100.8	102.0	99.8	100.5	98.9	99.2	96.7
400	104.1	102.5	104.4	103.2	101.8	99.2	102.6	102.2	99.4	98.5	99.7	97.6	98.3	96.3	97.0	94.4
500	101.8	100.1	102.1	100.7	99.4	96.9	100.1	99.6	96.9	96.3	97.5	95.3	96.0	94.4	94.7	92.0
630	99.4	97.6	99.7	98.0	96.8	94.4	97.5	97.0	94.4	93.8	95.1	92.9	93.7	91.3	92.3	89.6
800	96.9	95.0	97.2	95.3	94.1	91.8	94.7	94.2	91.7	91.2	92.6	90.1	91.3	88.5	89.7	87.0
1000	94.3	92.4	94.5	92.5	91.1	88.9	91.7	91.1	88.8	88.3	89.7	87.1	88.4	85.8	86.7	84.4
1250	91.5	89.5	91.7	89.6	87.9	85.5	88.4	87.9	85.7	85.9	86.6	84.1	85.4	82.5	83.4	81.6
1600	88.6	86.5	88.7	86.5	84.6	81.8	84.4	84.6	82.4	81.4	83.4	80.9	82.2	79.3	80.0	78.6
2000	85.5	83.4	85.6	83.2	81.1	77.8	81.5	81.2	78.9	77.4	79.4	77.0	78.2	75.4	76.8	75.5
2500	81.6	79.4	81.5	79.2	77.2	73.5	77.6	77.4	75.0	73.7	75.0	73.1	73.7	71.5	73.2	72.0
3150	77.2	75.3	77.3	74.9	73.3	69.1	73.4	73.2	70.8	69.7	70.9	69.1	68.6	65.1	67.0	65.9
4000	72.5	70.8	72.3	70.2	68.2	64.2	68.6	68.5	66.1	65.1	66.4	64.6	63.0	62.3	60.4	61.5
5000	67.7	65.9	67.2	65.2	63.1	59.0	63.5	63.4	60.9	60.1	61.5	59.6	57.8	57.4	55.4	56.6
6300	62.6	60.7	62.3	60.3	57.9	53.5	57.9	58.2	55.6	54.7	56.2	54.2	52.3	51.9	50.1	51.3
8000	58.6	56.7	58.8	56.8	54.3	48.5	52.7	53.5	50.8	50.3	51.5	49.6	47.1	47.2	45.6	46.9
10000	54.3	52.3	53.7	51.2	48.3	43.5	47.1	48.0	45.0	44.6	46.1	44.2	41.7	42.0	40.4	41.6
12500	49.6	47.4	48.9	45.9	42.7	38.0	41.1	41.5	37.9	36.3	39.8	37.8	35.1	36.9	36.3	37.1
16000	44.2	41.6	43.3	40.1	36.6	30.9	33.8	33.1	30.3	28.2	32.3	30.7	26.5	27.7	26.7	28.3
20000	37.9	34.5	37.0	33.0	28.5	20.8	23.8	24.6	18.3	19.4	22.6	21.3	15.2	17.6	22.2	17.0
25000	29.3	26.2	28.9	22.5	14.9	10.7	7.8	11.9	6.4	8.7	7.8	8.6	3.8	7.5	9.1	8.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-119L AIRCRAFT																				
ENG. R3350-893																				
GROUND RUNUP																				
OPERATIONS:																				
MAGNETO CHECK, C-119																				
SINGLE ENGINE, 2100 RPM																				
GROUND RUNUP																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 73 %																				
DELTA N = -1.0 DB																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-074-001																				
RUN 04																				
AIRCRAFT CODE 074																				
OPERATION CODE 00208																				
PROFILE VERSION A																				
18 MAY 76																				
PAGE E4																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	111.5	113.1	114.0	115.0	116.8	117.7	118.7	119.8	120.9	122.0	123.1	124.2	125.3	126.4	127.5	128.6	129.7	130.8	131.9	133.0
250	109.3	107.9	106.9	105.5	104.3	103.2	102.2	101.2	100.2	99.2	98.2	97.2	96.2	95.2	94.2	93.2	92.2	91.2	90.2	89.2
315	107.1	105.7	104.7	103.2	102.0	100.8	99.7	98.6	97.5	96.4	95.3	94.2	93.1	92.0	90.9	89.8	88.7	87.6	86.5	85.4
400	104.9	103.5	102.4	101.2	100.0	98.8	97.6	96.4	95.2	94.0	92.8	91.6	90.4	89.2	88.0	86.8	85.6	84.4	83.2	82.0
500	102.6	101.1	100.0	98.8	97.6	96.4	95.2	94.0	92.8	91.6	90.4	89.2	88.0	86.8	85.6	84.4	83.2	82.0	80.8	79.6
630	100.2	98.5	97.2	95.9	94.6	93.3	92.0	90.7	89.4	88.1	86.8	85.5	84.2	82.9	81.6	80.3	79.0	77.7	76.4	75.1
800	97.7	96.0	94.5	93.1	91.7	90.3	88.9	87.5	86.1	84.7	83.3	81.9	80.5	79.1	77.7	76.3	74.9	73.5	72.1	70.7
1000	95.1	93.3	91.5	89.7	87.9	86.1	84.3	82.5	80.7	78.9	77.1	75.3	73.5	71.7	69.9	68.1	66.3	64.5	62.7	60.9
1250	92.3	90.5	88.7	86.9	85.1	83.3	81.5	79.7	77.9	76.1	74.3	72.5	70.7	68.9	67.1	65.3	63.5	61.7	59.9	58.1
1500	89.4	87.5	85.6	83.7	81.8	79.9	78.0	76.1	74.2	72.3	70.4	68.5	66.6	64.7	62.8	60.9	59.0	57.1	55.2	53.3
2000	86.3	84.3	82.4	80.4	78.4	76.4	74.4	72.4	70.4	68.4	66.4	64.4	62.4	60.4	58.4	56.4	54.4	52.4	50.4	48.4
2500	82.4	80.4	78.4	76.4	74.4	72.4	70.4	68.4	66.4	64.4	62.4	60.4	58.4	56.4	54.4	52.4	50.4	48.4	46.4	44.4
3150	78.0	76.0	74.0	72.0	70.0	68.0	66.0	64.0	62.0	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0
4000	73.2	71.2	69.2	67.2	65.2	63.2	61.2	59.2	57.2	55.2	53.2	51.2	49.2	47.2	45.2	43.2	41.2	39.2	37.2	35.2
5000	68.2	66.2	64.2	62.2	60.2	58.2	56.2	54.2	52.2	50.2	48.2	46.2	44.2	42.2	40.2	38.2	36.2	34.2	32.2	30.2
6300	62.9	61.1	59.3	57.5	55.7	53.9	52.1	50.3	48.5	46.7	44.9	43.1	41.3	39.5	37.7	35.9	34.1	32.3	30.5	28.7
8000	58.7	56.9	55.1	53.3	51.5	49.7	47.9	46.1	44.3	42.5	40.7	38.9	37.1	35.3	33.5	31.7	29.9	28.1	26.3	24.5
10000	54.3	52.3	50.3	48.3	46.3	44.3	42.3	40.3	38.3	36.3	34.3	32.3	30.3	28.3	26.3	24.3	22.3	20.3	18.3	16.3
12500	49.9	47.9	45.9	43.9	41.9	39.9	37.9	35.9	33.9	31.9	29.9	27.9	25.9	23.9	21.9	19.9	17.9	15.9	13.9	11.9
16000	44.2	42.2	40.2	38.2	36.2	34.2	32.2	30.2	28.2	26.2	24.2	22.2	20.2	18.2	16.2	14.2	12.2	10.2	8.2	6.2
20000	37.9	35.9	33.9	31.9	29.9	27.9	25.9	23.9	21.9	19.9	17.9	15.9	13.9	11.9	9.9	7.9	5.9	3.9	1.9	-0.1
25000	29.3	26.2	23.0	20.0	17.0	14.0	11.0	8.0	5.0	2.0	-1.0	-4.0	-7.0	-10.0	-13.0	-16.0	-19.0	-22.0	-25.0	-28.0

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

>> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-119L AIRCRAFT																
ENG. R3350-893																
GROUND RUNUP																
OPERATION:																
MAGNETO CHECK, C-119																
SINGLE ENGINE, 2100 RPM																
GROUND RUNUP																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-074-001																
AIRCRAFT CODE 074																
OPERATION CODE 00208																
PROFILE VERSION A																
18 MAY 76																
PAGE G4																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	97.8	90.4	84.2	80.0	76.8	73.6	70.4	67.2	64.0	60.8	57.6	54.4	51.2	48.0	44.8	41.6
250	95.7	88.3	82.1	77.9	73.7	69.5	65.3	61.1	56.9	52.7	48.5	44.3	40.1	35.9	31.7	27.5
315	93.6	86.2	79.8	75.6	71.4	67.2	63.0	58.8	54.6	50.4	46.2	42.0	37.8	33.6	29.4	25.2
400	91.5	84.1	77.7	73.5	69.3	65.1	60.9	56.7	52.5	48.3	44.1	39.9	35.7	31.5	27.3	23.1
500	89.3	81.9	75.5	71.3	67.1	62.9	58.7	54.5	50.3	46.1	41.9	37.7	33.5	29.3	25.1	20.9
630	87.1	79.7	73.3	69.1	64.9	60.7	56.5	52.3	48.1	43.9	39.7	35.5	31.3	27.1	22.9	18.7
800	84.8	77.4	71.0	66.8	62.6	58.4	54.2	50.0	45.8	41.6	37.4	33.2	29.0	24.8	20.6	16.4
1000	82.5	75.1	68.7	64.5	60.3	56.1	51.9	47.7	43.5	39.3	35.1	30.9	26.7	22.5	18.3	14.1
1250	80.0	72.6	66.2	62.0	57.8	53.6	49.4	45.2	41.0	36.8	32.6	28.4	24.2	20.0	15.8	11.6
1600	77.4	70.0	63.6	59.4	55.2	51.0	46.8	42.6	38.4	34.2	30.0	25.8	21.6	17.4	13.2	9.0
2000	74.7	67.3	60.9	56.7	52.5	48.3	44.1	39.9	35.7	31.5	27.3	23.1	18.9	14.7	10.5	6.3
2500	71.6	64.2	57.8	53.6	49.4	45.2	41.0	36.8	32.6	28.4	24.2	20.0	15.8	11.6	7.4	3.2
3150	68.1	60.7	54.3	50.1	45.9	41.7	37.5	33.3	29.1	24.9	20.7	16.5	12.3	8.1	3.9	-0.3
4000	64.0	56.6	50.2	46.0	41.8	37.6	33.4	29.2	25.0	20.8	16.6	12.4	8.2	4.0	-0.2	-4.4
5000	59.5	52.1	45.7	41.5	37.3	33.1	28.9	24.7	20.5	16.3	12.1	7.9	3.7	-0.5	-4.7	-8.9
6300	54.9	47.5	41.1	36.9	32.7	28.5	24.3	20.1	15.9	11.7	7.5	3.3	-0.9	-5.1	-9.3	-13.5
8000	51.1	43.7	37.3	33.1	28.9	24.7	20.5	16.3	12.1	7.9	3.7	-0.5	-4.7	-8.9	-13.1	-17.3
10000	47.1	39.7	33.3	29.1	24.9	20.7	16.5	12.3	8.1	3.9	-0.3	-4.5	-8.7	-12.9	-17.1	-21.3
12500	42.9	35.5	29.1	24.9	20.7	16.5	12.3	8.1	3.9	-0.3	-4.5	-8.7	-12.9	-17.1	-21.3	-25.5
16000	38.4	31.0	24.6	20.4	16.2	12.0	7.8	3.6	-0.6	-4.8	-9.0	-13.2	-17.4	-21.6	-25.8	-30.0
20000	33.4	26.0	19.6	15.4	11.2	7.0	2.8	-1.4	-5.6	-9.8	-14.0	-18.2	-22.4	-26.6	-30.8	-35.0
25000	28.0	20.6	14.2	10.0	5.8	1.6	-2.6	-6.8	-11.0	-15.2	-19.4	-23.6	-27.8	-32.0	-36.2	-40.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

C-119L AIRCRAFT

ENG. R3350-898

GROUND RUNUP

OPERATIONS:

MAGNETO CHECKS, 2-119

SINGLE ENGINE, 2100 RPM

GROUND RUNUP

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-074-001

RUN 04

AIRCRAFT CODE 074

OPERATION CODE 00208

PROFILE VERSION A

10 MAY 76

PAGE J4

	10	20	30	40	50	60	70	80	90	100	110
ANGLE	NOISE LEVEL IN PND8 OR DBA										
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PND); AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
IDENTIFICATION:																
) OMEGA 8.2																
) TEST 74-074-031																
) RUN 05																
) AIRCRAFT CODE 074																
) OPERATION CODE 00231																
) PROFILE VERSION A																
) 10 MAY 76																
) PAGE 05																
NOISE SOURCE/SUBJECT:																
) C-119L AIRCRAFT																
) ENG. R3350-89B																
) GROUND RUNUP																
METEOROLOGY:																
) TEMP = 59 F																
) BAR PRESS = 29.92 IN HG																
) REL HUMID = 79 %																
) DELTA N = -3.0 DB																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
ANGLE (DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	118.9	123.6	124.5	121.0	117.5	117.8	119.8	120.1	122.8	124.4	123.4	120.8	118.1	117.1	115.4	113.3
250	116.8	118.5	118.3	116.9	115.3	115.6	117.5	117.8	120.7	122.3	121.3	118.7	116.0	114.9	113.3	111.2
315	114.6	116.3	116.1	114.7	113.0	113.3	115.3	115.6	118.5	120.1	119.2	116.6	113.9	112.8	111.1	109.1
400	112.4	114.1	113.9	112.5	110.6	110.9	112.9	113.2	116.3	117.9	117.0	114.4	111.7	110.6	109.0	106.9
500	110.1	111.8	111.5	110.1	108.2	108.5	110.4	110.8	114.0	115.6	114.7	112.2	109.5	108.4	106.7	104.7
630	107.7	109.4	109.0	107.6	105.5	105.9	107.8	108.3	111.5	113.1	112.2	109.6	107.2	106.0	104.4	102.4
800	105.2	106.9	106.5	105.6	102.8	103.3	105.1	105.7	108.8	110.4	109.6	107.0	104.8	103.6	102.0	100.0
1000	102.6	104.3	103.9	104.0	99.9	100.4	102.2	103.0	106.0	107.6	106.8	104.2	102.4	101.1	99.5	97.5
1250	99.9	101.6	101.2	101.9	96.8	97.4	99.3	100.1	102.9	104.6	103.8	101.2	99.8	98.4	96.9	94.9
1500	97.0	98.7	98.2	97.5	93.5	94.1	96.1	96.9	100.0	101.3	100.6	97.9	96.5	95.2	93.6	91.6
2000	93.9	95.6	95.1	93.8	90.0	90.5	92.6	93.8	96.9	97.7	97.5	94.3	93.0	91.5	90.0	88.4
2500	90.0	91.6	91.2	90.2	86.1	86.7	88.9	89.9	93.0	93.7	93.6	90.2	88.9	87.5	85.8	83.7
3150	85.7	87.3	86.8	86.0	81.9	82.5	84.9	85.1	88.7	89.3	89.3	85.4	84.3	82.5	80.7	78.7
4000	80.9	82.3	81.9	81.5	77.2	77.8	80.5	81.7	83.9	84.4	84.4	79.8	78.4	76.8	75.0	73.8
5000	76.0	77.3	76.8	76.6	72.2	73.1	75.9	77.1	79.2	79.3	79.1	74.5	72.7	71.1	69.5	67.4
6300	71.0	72.3	71.7	71.5	66.8	68.0	70.9	72.2	74.3	74.3	73.8	69.4	68.9	65.7	64.4	62.4
8000	67.1	68.4	67.9	67.5	62.4	63.6	66.5	67.9	70.0	70.4	69.9	65.0	63.2	61.7	60.4	58.1
10000	62.9	64.3	63.6	63.2	57.1	58.8	61.8	63.2	65.7	65.3	65.9	61.6	59.2	57.4	56.1	53.7
12500	58.3	59.7	59.1	58.6	52.3	53.0	56.9	58.3	61.1	61.8	61.7	57.3	55.0	52.8	51.3	48.8
15000	53.3	54.7	53.9	53.3	46.5	48.0	51.5	53.0	56.0	56.8	56.9	53.0	50.6	47.9	45.6	43.1
20000	47.7	49.3	48.5	47.6	40.1	41.7	45.3	47.1	50.3	51.5	51.9	48.3	45.8	42.3	40.0	38.1
25000	40.8	42.9	42.0	40.7	32.2	33.6	37.7	39.9	43.7	45.4	46.0	42.9	39.9	36.1	33.5	30.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-119L AIRCRAFT																				
ENG. R3350-898																				
GROUND RUNUP																				
(OPERATIONS:																				
(MAX POWER, C-119																				
(SINGLE ENGINE, 2900 RPM																				
(GROUND RUNUP																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -3.0 DB																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-074-001																				
RUN 05																				
AIRCRAFT CODE 074																				
OPERATION CODE 00231																				
PROFILE VERSION A																				
18 MAY 76																				
PAGE F5																				
DISTANCE																				
(FEET)																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	105.5	106.7	106.5	106.5	102.9	103.6	106.0	106.0	106.0	109.3	109.3	109.3	109.3	100.9	100.7	99.2	98.5	98.2	88.2	78.2
250	103.4	104.6	104.4	104.4	100.7	101.4	103.8	104.7	107.2	107.2	107.2	107.2	107.2	98.6	98.6	97.1	96.4	96.1	86.1	76.1
315	101.3	102.5	102.2	102.2	98.5	99.2	101.7	102.5	105.0	104.9	103.9	100.3	96.7	96.4	95.0	94.3	94.0	94.0	84.0	74.0
400	99.2	100.4	100.1	100.0	96.2	97.0	99.4	100.3	102.8	102.7	101.7	98.2	94.5	94.3	92.9	92.2	91.9	91.9	81.9	71.9
500	97.0	98.1	97.8	97.7	93.9	94.7	97.2	98.1	100.6	100.5	99.5	96.0	92.3	92.3	90.6	90.0	89.8	89.8	79.8	69.8
630	94.7	95.9	95.5	95.3	91.5	92.3	94.8	95.8	98.3	98.2	97.3	93.7	89.9	89.6	88.3	87.7	87.6	87.6	77.6	67.6
800	92.4	93.5	93.2	92.3	89.0	89.9	92.4	93.5	96.0	95.8	94.9	91.2	87.5	87.2	85.9	85.4	85.4	85.4	75.4	65.4
1000	90.1	91.1	90.7	90.4	86.5	87.4	90.0	91.0	92.5	93.3	92.5	88.7	85.0	84.7	83.4	83.0	83.0	83.1	73.1	63.1
1250	87.6	88.6	88.2	87.8	83.8	84.7	87.4	88.5	91.0	90.7	90.0	86.3	82.4	82.1	80.6	80.6	80.7	80.7	70.7	60.7
1600	85.0	85.9	85.6	85.1	81.1	82.0	84.8	85.9	88.3	88.0	87.3	83.2	79.5	79.3	78.0	78.0	78.2	78.2	68.2	58.2
2000	82.4	83.2	82.8	82.2	78.2	79.1	82.0	83.2	85.0	85.1	84.6	80.3	76.4	76.4	75.0	75.3	75.7	75.7	65.7	55.7
2500	79.3	80.0	79.7	79.1	75.0	76.0	79.1	80.3	82.5	81.9	81.3	77.0	73.1	73.2	71.9	72.3	72.9	72.9	62.9	52.9
3150	75.9	76.4	76.3	75.7	71.6	72.7	75.9	77.1	79.2	78.4	77.7	73.3	69.5	69.7	68.4	69.1	69.8	69.8	59.8	49.8
4000	72.1	72.5	72.5	71.9	68.0	69.1	72.4	73.5	75.5	74.5	73.8	69.4	65.6	65.3	64.6	65.6	66.2	66.2	56.2	46.2
5000	67.9	68.2	68.3	67.8	63.9	65.1	68.4	69.5	71.5	70.3	69.5	65.2	61.5	61.8	60.5	61.5	62.2	62.2	52.2	42.2
6300	63.4	63.7	63.8	63.3	59.3	60.7	64.1	65.1	67.1	65.8	65.0	60.8	57.1	57.4	56.2	57.2	57.9	57.9	47.9	37.9
8000	59.7	60.0	60.0	59.4	55.3	56.6	60.0	61.1	63.0	61.9	61.2	57.0	53.2	53.5	52.3	53.3	54.1	54.1	44.1	34.1
10000	55.7	56.0	56.0	55.2	51.7	52.1	55.6	56.8	58.7	57.9	57.2	53.1	49.1	49.4	48.2	49.1	50.0	50.0	40.0	30.0
12500	51.4	51.7	51.6	50.7	45.9	47.2	50.8	52.0	54.0	53.5	53.0	48.9	45.0	45.0	43.9	44.5	45.5	45.5	35.5	25.5
16000	46.6	47.2	46.8	45.9	40.7	42.0	45.5	46.9	49.0	48.9	48.5	44.7	40.9	40.6	39.4	39.5	40.4	40.4	30.4	20.4
20000	41.4	42.2	41.8	40.8	35.4	36.4	39.8	41.3	43.6	43.6	43.2	39.4	35.6	35.2	34.0	34.0	34.9	34.9	24.9	14.9
25000	35.8	36.9	36.3	35.4	30.0	30.8	33.6	35.3	38.0	39.3	39.2	36.3	33.6	33.0	32.0	32.0	32.9	32.9	22.9	12.9
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 074																			
C-119L AIRCRAFT) TEMP) OPERATION CODE 00231																			
ENG. R3350-893) SINGLE ENGINE, 2900 RPM) BAK PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP) GROUND RUNUP) REL HUMID = 70 %) 18 MAY 76																			
() DELTA N = -3.0 DB) PAGE 65																			
IDENTIFICATION:																			
() OMEGA 8.2																			
() TEST 74-074-001																			
() RUN 05																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	106.6	106.7	107.7	108.0	103.9	103.6	105.6	107.9	111.0	111.6	110.2	106.6	102.0	101.7	100.1	98.5	98.2	88.2	78.2
250	104.5	104.6	105.6	105.8	101.7	101.4	104.5	105.8	108.9	109.5	108.1	104.5	99.9	99.6	98.0	96.4	96.1	86.1	76.1
315	102.4	102.5	103.5	103.7	99.5	99.2	102.3	103.6	106.8	107.4	106.0	102.4	97.8	97.4	95.9	94.3	94.0	84.0	74.0
400	100.4	100.4	101.3	101.5	97.3	97.0	100.1	101.4	104.6	105.2	103.9	100.3	95.6	95.2	93.7	92.2	91.9	81.9	71.9
500	98.0	98.1	99.1	99.2	94.9	94.7	97.8	99.2	102.4	103.0	101.7	98.1	93.4	93.0	91.5	90.0	89.8	79.8	69.8
630	95.8	95.9	96.8	96.8	92.5	92.3	95.5	96.9	100.1	100.7	99.4	95.8	91.1	90.6	89.2	87.7	87.6	77.6	67.6
800	93.5	93.5	94.4	94.4	90.1	89.9	93.1	94.6	97.7	98.3	97.1	93.3	88.6	88.2	86.7	85.4	85.4	75.4	65.4
1000	91.1	91.1	92.0	91.9	87.5	87.4	90.6	92.1	95.3	95.8	94.7	90.8	86.1	85.7	84.3	83.0	83.1	73.1	63.1
1250	88.6	88.6	89.4	89.2	84.8	84.7	88.1	89.6	92.7	93.2	92.1	88.1	83.5	83.1	81.6	80.6	80.7	70.7	60.7
1600	86.1	85.9	86.8	86.5	82.1	82.0	85.4	87.0	90.1	90.5	89.5	85.3	80.6	80.3	78.8	78.0	78.2	68.2	58.2
2000	83.4	83.2	84.1	83.7	79.2	79.1	82.7	84.3	87.3	87.6	86.8	82.4	77.5	77.4	75.9	75.3	75.7	65.7	55.7
2500	80.3	80.0	81.0	80.6	76.0	76.0	79.7	81.4	84.3	84.4	83.5	79.1	74.2	74.2	72.7	72.3	72.9	62.9	52.9
3150	77.0	76.4	77.5	77.2	72.6	72.7	76.6	78.1	81.0	80.9	79.9	75.4	70.6	70.7	69.3	69.1	69.8	59.8	49.8
4000	73.0	72.5	73.5	73.1	63.8	63.1	72.9	74.4	76.9	76.5	75.5	71.1	66.5	66.7	65.3	65.6	66.2	56.2	46.2
5000	68.5	68.2	69.0	68.6	64.5	65.1	68.8	70.1	72.5	71.8	70.8	66.5	62.2	62.4	61.1	61.5	62.2	52.2	42.2
6300	63.9	63.7	64.3	63.9	59.9	60.7	64.3	65.6	67.8	66.8	65.8	61.6	57.6	57.8	56.5	57.2	57.9	47.9	37.9
8000	59.9	60.0	60.3	59.7	55.5	56.6	60.1	61.3	63.4	62.4	61.6	57.5	53.4	53.7	52.5	53.3	54.1	44.1	34.1
10000	55.7	56.0	56.0	55.2	50.7	52.1	55.6	56.8	58.7	57.9	57.2	53.1	49.1	49.4	48.2	49.1	50.0	40.0	30.0
12500	51.4	51.7	51.6	50.7	45.9	47.2	50.8	52.0	54.0	53.5	53.0	48.9	45.0	45.0	43.9	44.5	45.5	35.5	25.5
16000	46.6	47.2	46.8	45.9	40.7	42.0	45.5	46.9	49.0	48.9	48.5	44.7	40.9	40.5	39.4	39.5	40.4	30.4	20.4
20000	41.4	42.2	41.8	40.8	35.4	36.4	39.8	41.3	43.6	44.2	43.9	40.4	37.1	36.2	35.0	34.4	34.9	24.9	14.9
25000	35.8	36.9	36.3	35.4	30.0	30.8	33.6	35.3	38.0	38.3	39.2	36.3	33.6	32.0	30.9	29.3	28.9	18.9	8.9
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-119L AIRCRAFT
 ENG. R33C-09J
 GROUND RUNUP
 (OPERATION:
 MAX POWER, C-119
 SINGLE ENGINE, 2900 RPM
 GROUND RUNUP
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB
 IDENTIFICATION:
 OMEGA 8.2
 TEST 74-074-001
 RUN 05
 AIRCRAFT CODE 074
 OPERATION CODE 00231
 PROFILE VERSION A
 18 MAY 76
 PAGE J5

		P=PHLT												A=AL												I=IL											
		30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130			
0																																					
10																																					
20																																					
30																																					
40																																					
50																																					
60																																					
70																																					
80																																					
90																																					
100																																					
110																																					
120																																					
130																																					
140																																					
150																																					
160																																					
>170																																					
>180																																					

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

USAF	TAKEOFF 58 IN HG, 2900 RPM	. . . . .	238-246
USAF	CRUISE 33 IN HG, 2350 RPM	. . . . .	247-255
USAF	APPROACH 35 IN HG, 2600 RPM	. . . . .	256-264
USAF	INTERMEDIATE 40 IN HG, 2350 RPM	. . . . .	265-273

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

[illegible]

USAF	SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
USAF	GROUND-TO-GROUND PROPAGATION
USAF	SOUND PRESSURE LEVEL SPECTRA
USAF	SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
USAF	

AEROSPACE MEDICAL RESEARCH LABORATORY
29 JAN 76
USAF
USAF
USAF
USAF
USAF
USAF
USAF

KRIGHI - PAATIERSON AIR FORCE BASE, OHIO
USAF
USAF
USAF
USAF
USAF
USAF
USAF

[illegible]

1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION											
AIRCRAFT:											
(OPERATIONS:) METEOROLOGY:											
(TAKEOFF POWER) TEMP											
(50 IN HG 2900 RPM) REL HUMID = 70 %											
(AIRSPEED = 165 KNOTS) DELTA N = 0.0 DB											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PWL (PNDB)	PMLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	119.0	121.0	132.5	134.5	116.5	116.1	121.7				
250	116.8	118.9	130.2	132.2	115.3	116.9	120.4				
315	114.6	116.6	127.9	129.9	114.1	115.6	119.1				
400	112.4	114.4	125.4	127.4	112.9	114.4	117.6				
500	110.1	112.1	122.9	124.9	111.6	113.1	116.1				
630	107.9	109.8	120.4	122.4	110.3	111.9	114.6				
800	105.5	107.5	118.0	120.0	109.0	110.6	113.1				
1000	103.2	105.2	115.4	117.4	107.7	109.2	111.6				
1250	100.8	102.8	112.8	114.8	106.3	107.8	110.0				
1600	98.4	100.4	110.2	112.2	104.9	106.4	108.4				
2000	95.9	97.9	107.5	109.5	103.4	104.9	106.7				
2500	93.3	95.3	104.7	106.7	101.8	103.4	104.9				
3150	90.7	92.7	101.9	103.9	100.2	101.7	103.1				
4000	88.0	89.6	99.1	100.7	98.5	99.7	101.0				
5000	85.2	86.4	96.2	97.4	96.6	97.6	98.7				
6300	82.2	83.0	93.2	94.0	94.7	95.3	96.5				
8000	79.1	79.5	90.1	90.5	92.6	92.9	94.1				
10000	75.9	75.9	87.0	87.0	90.4	90.4	91.7				
12500	72.5	72.5	83.7	83.7	87.9	87.9	89.4				
16000	68.9	68.9	80.1	80.1	85.3	85.3	86.8				
20000	65.1	65.1	76.2	76.2	82.5	82.5	83.9				
25000	61.1	61.1	72.1	72.1	79.5	79.5	80.7				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	C-121 TAKEOFF POWER										ST-E		
	50 IN HG	2900 RPM											
200	(((((((((((((
250	(((((((((((((
315	(((((((((((((
400	(((((((((((((
500	(((((((((((((
630	(((((((((((((
800	(((((((((((((
1000	(((((((((((((
1250	(((((((((((((
1600	(((((((((((((
2030	(((((((((((((
2500	(((((((((((((
3150	(((((((((((((
4000	(((((((((((((
5000	(((((((((((((
6300	(((((((((((((
8000	(((((((((((((
10000	(((((((((((((
12500	(((((((((((((
16000	(((((((((((((
20000	(((((((((((((
25000	(((((((((((((

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATIONS:	TAKEOFF POWER	58 IN HG	2900 RPM	METEOROLOGY:	TEMP	REL HUMID	DELTA N	0.0 DB
C-121									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	114.0	116.0	27.5	129.5	111.5	113.0	116.7		
250	111.8	113.8	125.2	127.2	110.3	111.8	115.4		
315	109.6	111.6	122.9	124.8	109.1	110.6	114.0		
400	107.4	109.3	120.4	122.3	107.9	109.4	112.5		
500	105.1	107.1	117.8	119.8	106.6	108.1	110.9		
630	102.8	104.7	115.3	117.2	105.2	106.7	109.4		
800	100.4	102.3	112.7	114.6	103.9	135.4	107.8		
1000	98.0	99.9	110.0	111.9	102.4	103.9	106.1		
1250	95.4	97.3	107.1	109.1	100.9	102.4	104.3		
1600	92.8	94.7	104.2	106.1	99.2	100.7	102.3		
2000	90.0	92.0	101.0	103.0	97.5	99.0	100.2		
2500	87.0	88.9	97.1	99.1	95.4	96.9	97.3		
3150	83.6	85.5	92.8	94.8	93.0	94.5	94.0		
4000	79.8	81.4	88.3	89.9	90.3	91.5	90.1		
5000	75.6	76.9	83.4	84.6	87.1	88.0	86.0		
6300	71.1	71.9	78.4	79.2	83.6	84.2	81.6		
8000	67.2	67.6	74.4	74.8	80.6	80.9	78.3		
10000	62.9	62.9	70.1	70.1	77.4	77.4	74.8		
12500	58.4	58.4	65.5	65.5	73.8	73.8	71.2		
16000	53.4	53.4	60.5	60.5	69.8	69.8	67.1		
20000	47.9	47.9	54.8	54.8	65.4	65.4	62.5		
25000	42.1	42.1	48.4	48.4	60.6	60.6	57.1		

*** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS.
*** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:			
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6			
AIRCRAFT:																									A/C CODE: 075			
C-121																									OPS CODE: 104			
																									PROFILE VER: A			
																									29 JAN 76			
																									PAGE H2			
AIRSPEED = 150 KNOTS																									DELTA N = 0.0 DB			
METEOROLOGY:																									TEMP = 59 F			
																									REL HUMID = 70 %			
CRUISE POWER																												
2350 RPM																												
IN HG																												
FREQUENCY BAND NUMBER																												
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
200	97	96	98	100	105	107	93	94	95	89	90	90	86	86	82	82	84	85	86	86	86	82	79	79	81			
250	95	94	96	98	103	105	91	92	93	87	88	88	84	84	80	80	81	83	84	84	83	79	76	76	78			
315	93	92	94	96	100	103	89	90	91	85	86	86	82	82	78	78	79	80	81	81	81	76	74	73	74			
400	91	90	92	94	98	101	87	88	89	83	84	84	80	79	76	76	77	78	79	78	78	74	71	69	70			
500	89	88	90	92	96	99	85	86	87	81	82	82	78	77	73	73	75	76	76	76	76	71	67	65	65			
630	87	86	88	90	94	97	83	84	85	79	80	80	76	75	71	71	72	73	73	73	73	68	64	61	59			
800	85	83	86	88	92	95	81	82	82	76	78	77	74	73	69	69	70	70	71	71	69	64	59	56	53			
1000	83	81	84	86	90	93	79	80	80	74	75	75	71	71	66	66	67	68	67	66	66	60	55	50	45			
1250	81	79	82	84	88	91	77	78	78	72	73	73	69	68	64	63	64	65	64	62	56	49	43	36				
1600	79	77	80	82	86	89	75	76	76	70	71	71	67	66	61	61	61	61	60	57	51	43	35	25				
2000	77	75	78	80	84	86	73	74	74	68	69	68	64	63	59	58	58	58	56	52	45	36	25	12				
2500	75	73	76	78	82	84	71	71	72	65	66	66	62	60	56	54	54	53	51	46	38	27	13					
3150	73	71	74	76	80	82	68	69	69	63	64	63	59	57	52	51	50	49	46	39	31	17						
4000	71	69	72	73	78	80	66	67	67	61	61	60	56	54	49	47	46	43	39	31	21	4						
5000	69	67	70	71	76	78	64	65	65	58	58	57	53	51	45	42	41	37	31	21	10							
6300	66	65	68	69	73	75	61	62	62	55	55	54	49	47	40	37	35	30	22	9								
8000	64	63	65	67	71	73	59	60	59	52	52	51	45	42	35	31	28	21	11									
10000	62	61	63	65	69	71	56	57	56	49	49	47	41	37	30	24	19	11										
12500	60	58	61	62	66	68	54	54	53	46	45	42	36	31	23	16	9											
16000	58	56	58	60	64	65	51	51	50	42	40	37	30	25	15	6												
20000	55	54	56	57	61	62	47	47	46	37	35	32	23	16	5													
25000	53	51	53	54	58	59	44	43	41	32	30	25	15	7														
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4																												
< BAND WHICH DETERMINES THE TONE CORRECTION (C).																												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 < BAND WHICH DETERMINES THE TONE CORRECTION (CI).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 075	
C-121										OPS CODE: 104	
										PROFILE VER: A	
										29 JAN 76	
										PAGE 12	
										DELTA N = 0.0 DB	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	99.5	100.8	115.6	117.0	99.8	101.3	106.7				
250	97.4	98.7	113.5	114.8	98.7	100.2	105.6				
315	95.2	96.6	111.4	112.7	97.6	99.1	104.5				
400	93.1	94.4	109.2	110.5	96.5	98.0	103.3				
500	90.9	92.3	106.9	108.3	95.3	96.8	102.0				
630	88.8	90.1	104.7	106.0	94.1	95.6	100.8				
800	86.6	87.9	102.3	103.7	92.9	94.4	99.4				
1000	84.3	85.7	99.9	101.3	91.7	93.2	98.0				
1250	82.1	83.4	97.5	98.8	90.5	92.0	96.6				
1600	79.8	81.1	95.0	96.4	89.2	90.7	95.1				
2000	77.5	78.9	92.5	93.9	87.9	89.4	93.6				
2500	75.2	76.5	89.9	91.3	86.6	88.1	92.0				
3150	72.9	74.2	87.3	88.6	85.2	86.7	90.4				
4000	70.5	71.5	84.6	85.7	83.8	85.0	88.4				
5000	68.0	68.8	81.9	82.7	82.4	83.3	86.4				
6300	65.5	66.1	79.0	79.6	80.9	81.5	84.2				
8000	62.9	63.2	76.0	76.3	79.3	79.6	81.9				
10000	60.3	60.3	72.8	72.8	77.6	77.6	79.4				
12500	57.5	57.5	69.5	69.5	75.9	75.9	77.1				
16000	54.6	54.6	66.0	66.0	74.0	74.0	74.6				
20000	51.5	51.5	62.4	62.4	71.9	71.9	72.0				
25000	48.3	48.3	58.4	58.4	69.6	69.6	69.0				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	C-121	CRUISE POWER	A	P
250	33 IN HG	2350 RPM	.	*P
315	AIR SPEED = 150 KNOTS		A +	.
400	TEMP = 59 F	REL HUMID = 70 %	.	*P
500	DELTA N = 0.0 08		A +	*P
600	NO. OF RECORDS: 4		.	.
700	INCENT: 6.6-075-104-290176-A		A +	*P
800			.	.
900			A +	*P
1000			.	.
1100			A +	*P
1250			.	.
1400			A +	*P
1550			.	.
1700			A +	*P
1850			.	.
2000			A +	*P
2150			.	.
2300			A +	*P
2450			.	.
2600			A +	*P
2750			.	.
2900			A +	*P
3050			.	.
3200			A +	*P
3350			.	.
3500			A +	*P
3650			.	.
3800			A +	*P
3950			.	.
4100			A +	*P
4250			.	.
4400			A +	*P
4550			.	.
4700			A +	*P
4850			.	.
5000			A +	*P
5150			.	.
5300			A +	*P
5450			.	.
5600			A +	*P
5750			.	.
5900			A +	*P
6050			.	.
6200			A +	*P
6350			.	.
6500			A +	*P
6650			.	.
6800			A +	*P
6950			.	.
7100			A +	*P
7250			.	.
7400			A +	*P
7550			.	.
7700			A +	*P
7850			.	.
8000			A +	*P
8150			.	.
8300			A +	*P
8450			.	.
8600			A +	*P
8750			.	.
8900			A +	*P
9050			.	.
9200			A +	*P
9350			.	.
9500			A +	*P
9650			.	.
9800			A +	*P
9950			.	.
10100			A +	*P
10250			.	.
10400			A +	*P
10550			.	.
10700			A +	*P
10850			.	.
11000			A +	*P
11150			.	.
11300			A +	*P
11450			.	.
11600			A +	*P
11750			.	.
11900			A +	*P
12050			.	.
12200			A +	*P
12350			.	.
12500			A +	*P
12650			.	.
12800			A +	*P
12950			.	.
13100			A +	*P
13250			.	.
13400			A +	*P
13550			.	.
13700			A +	*P
13850			.	.
14000			A +	*P
14150			.	.
14300			A +	*P
14450			.	.
14600			A +	*P
14750				

200	(	---	ST	---	E	---
250	(	C-121				
315	(	33 IN HG				
400	(	CRUISE POWER				
500	(	2350 RPM				
630	(	AIRSPEED = 150 KNOTS				
800	(	TEMP = 59 F				
1000	(	REL HUMID = 70 %				
1250	(	DELTA N = 0.0 DB				
1600	(	NO. OF RECORDS: 4				
2000	(	IDENT: 6.6-075-104-290176-A				
2500	(
3150	(
4000	(
5000	(
6300	(
8000	(
10000	(
12500	(
16000	(
20000	(
25000	(

23

NOISE LEVEL IN DB

30 40 50 60 70 80 90 100 110

TABLE 1. SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*							
GROUND-TO-GROUND PROPAGATION						IDENTIFICATION:	
AIRCRAFT:	(OPERATIONS:		METEOROLOGY:				
C-121	(CRUISE POWER		TEMP	= 59 F			A/C CODE: 075
	(33 IN HG	2350 RPM	REL HUMID = 70 %				OPS CODE: 104
	(AIRSPEED = 150 KNOTS		DELTA N = 0.0 DB				PROFILE VER: A
							29 JAN 76
							PAGE #2
SLANT DISTANCE (FEET)	AL (BA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (OB)	SELT** (OB)	EPNL** (EPNDB)
200	94.5	95.8	110.6	111.9	94.8	96.3	101.7
250	92.4	93.7	108.5	109.8	93.7	95.2	100.6
315	90.2	91.5	106.3	107.6	92.6	94.1	99.4
400	88.0	89.3	104.0	105.3	91.4	92.9	98.1
500	85.7	87.0	101.6	102.9	90.1	91.6	96.6
630	83.3	84.6	99.0	100.3	88.7	90.2	95.1
800	80.8	82.1	96.3	97.6	87.2	88.7	93.3
1000	78.2	79.5	93.4	94.7	85.6	87.0	91.4
1250	75.4	76.7	90.2	91.5	83.8	85.2	89.2
1600	72.5	73.8	86.7	88.0	81.8	83.3	86.8
2000	69.4	70.7	82.8	84.1	79.8	81.2	83.9
2500	66.1	67.4	78.4	79.7	77.4	78.9	80.5
3150	62.5	63.8	73.5	74.8	74.9	76.3	76.6
4300	58.5	59.6	68.5	69.6	71.9	73.1	72.3
5000	54.3	55.1	63.5	64.2	68.7	69.5	67.9
6300	49.9	50.4	58.0	58.5	65.2	65.8	63.2
8000	46.2	46.5	53.7	54.0	62.6	62.9	59.6
10000	42.3	42.3	48.9	48.9	59.7	59.7	55.5
12500	38.2	38.2	43.3	43.3	56.5	56.5	50.9
16000	33.8	33.8	37.7	37.7	53.2	53.2	46.3
20000	29.4	29.4	30.9	30.9	49.7	49.7	40.5
25000	24.9	24.9	23.4	23.4	46.3	46.3	34.0

* EXTRAQ'ATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	C-121	CRUISE POWER	A	P
250	33 IN HG	2350 RPM	A +	+
315	AIR SPEED = 150 KNOTS			
400	TEMP = 59 F	REL HUMID = 70 %	A +	+
500	DELTA N = 0.0 DB		A +	+
630	NO. OF RECORDS: 4			
800	IDENT: 6.6-075-104-290176-A			
1000				
1250				
1600				
2000				
2500				
3150				
4000				
5000				
6300				
8000				
10000				
12500				
16000				
20000				
25000				

	30	40	50	60	70	80	90	100	110
	NOISE LEVEL IN DB								
200	C-121 CRUISE POWER								
250	33 IN HG 2350 RPM								
315	AIRSPEED = 150 KNOTS								
400	TEMP = 59 F REL HUMID = 70 %								
500	DELTA N = 0.0 DB								
	NO. OF RECORDS: 4								
	IDENT: 6.6-075-104-290176-A								
S 630	.	.	.	.	.	.	.	.	.
L 800	.	.	.	.	.	.	.	.	.
N 1000	.	.	.	.	.	.	.	.	.
O 1250	.	.	.	.	.	.	.	.	.
I 1600	.	.	.	.	.	.	.	.	.
S 2000	.	.	.	.	.	.	.	.	.
A 2500	.	.	.	.	.	.	.	.	.
N 3150	.	.	.	.	.	.	.	.	.
C 4000	.	.	.	.	.	.	.	.	.
E 5000	.	.	.	.	.	.	.	.	.
E 6300	.	.	.	.	.	.	.	.	.
E 8000	.	.	.	.	.	.	.	.	.
10030	.	.	.	.	.	.	.	.	.
12500	.	.	.	.	.	.	.	.	.
16000	.	.	.	.	.	.	.	.	.
20000	.	.	.	.	.	.	.	.	.
25000	.	.	.	.	.	.	.	.	.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.5	
AIRCRAFT:																									A/C CODE: 075	
C-12J																									OPS CODE: 105	
(PROFILE VER: A	
(29 JAN 76	
(PAGE H3	
METEOROLOGY:																										
(TEMP = 50 F	
(REL HUMID = 70 %	
(DELTA N = 0.0 DB	
FREQUENCY BAND NUMBER																										
SLANT	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
DISTANCE																										
(FEET)																										
200	95	96	90	100	105	112	99	102	103	99	98	99	96	91	88	83	88	88	88	39	99	85	92	81	91	
250	93	94	88	98	103	110	97	100	101	97	96	97	94	89	85	86	85	86	86	36	87	83	80	78	78	
315	91	92	86	96	101	108	95	98	99	95	94	95	91	87	84	84	83	84	84	34	85	80	77	74	74	
400	89	90	84	94	99	106	93	96	97	93	92	93	89	85	82	81	81	81	82	82	82	78	74	71	70	
500	87	88	82	92	97	104	91	94	95	91	89	91	87	83	80	79	79	79	79	79	79	75	70	67	65	
630	85	86	80	90	95	102	89	92	93	89	87	88	85	81	78	77	76	76	76	76	72	67	63	59		
800	83	84	78	88	93	100	87	90	91	87	85	85	83	78	75	74	74	74	73	73	68	63	57	53		
1000	81	82	76	86	91	98	85	88	88	85	83	84	81	76	73	72	71	71	71	70	69	64	58	52	45	
1250	79	80	74	84	89	95	83	85	85	82	81	82	78	74	70	69	68	68	67	65	60	54	48	42	35	
1600	77	78	72	82	87	93	81	83	84	80	79	80	76	71	66	65	64	64	63	58	52	46	40	34	27	
2000	75	76	69	80	85	91	79	81	82	78	78	77	73	69	65	64	62	61	61	56	50	44	38	32	25	
2500	73	74	67	78	83	89	77	79	80	76	74	75	71	66	62	60	59	57	57	54	50	43	37	31	24	
3150	71	72	65	76	80	87	75	77	77	73	71	72	68	63	59	57	55	52	49	43	35	29	23	16	1	
4000	69	70	63	74	78	85	72	74	75	71	69	69	65	61	55	53	50	47	42	35	28	22	16	1		
5000	67	68	61	72	76	83	70	72	73	68	66	65	62	58	54	51	48	45	41	34	28	22	16	1		
6300	64	65	59	69	74	80	68	70	71	66	63	63	58	52	47	43	39	34	25	19	13	07	01			
8000	62	64	57	67	72	78	65	67	67	63	60	60	55	48	42	37	32	25	15	09	03	-03	-09			
10000	60	62	55	65	69	75	63	64	64	59	56	56	50	43	36	30	24	15	09	03	-03	-09	-15			
12500	58	59	52	62	67	73	61	61	61	56	53	51	45	37	29	22	14	05	05	09	03	-03	-09	-15		
16000	56	57	50	60	64	70	57	58	58	52	48	46	39	30	21	12	05	05	09	03	-03	-09	-15			
20000	53	55	48	57	61	67	54	55	54	48	43	41	32	22	12	05	05	09	03	-03	-09	-15	-21			
25000	51	54	45	55	59	64	50	51	50	43	37	34	24	13	00											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	METEOROLOGY:	TEMP	REL HUMID	DELTA N	SELT**	SEL	EPNL**
C-121	(	35 IN HG	2600 RPM				(DB)	(DB)	(EPNDB)
	(	AIRSPEED = 140 KNOTS							
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	105.5	107.1	120.2	121.8	105.9	107.5	111.6		
250	103.4	105.0	118.1	119.7	104.8	106.5	110.5		
315	101.3	102.9	116.0	117.5	103.7	105.4	109.3		
400	99.2	100.8	113.8	115.4	102.6	104.3	108.1		
500	97.1	98.7	111.6	113.2	101.5	103.1	106.9		
630	95.0	96.6	109.3	110.9	100.3	102.0	105.7		
800	92.8	94.4	107.0	108.6	99.2	100.8	104.4		
1000	90.6	92.2	104.7	106.3	98.0	99.6	103.0		
1250	88.4	90.0	102.3	103.9	96.8	98.4	101.6		
1600	86.1	87.7	99.9	101.4	95.5	97.2	100.2		
2000	83.9	85.4	97.4	99.0	94.2	95.9	98.7		
2500	81.5	83.1	94.8	96.4	92.9	94.5	97.2		
3150	79.1	80.7	92.3	93.8	91.5	93.1	95.6		
4000	76.6	77.9	89.6	90.9	90.0	91.3	93.6		
5000	74.1	75.0	86.9	87.8	88.5	89.5	91.6		
6300	71.5	72.1	84.1	84.7	85.8	87.5	89.4		
8000	68.7	69.0	81.2	81.5	85.1	85.4	87.2		
10000	65.8	65.8	78.1	78.1	83.2	83.2	84.8		
12500	62.8	62.8	74.8	74.8	81.2	81.2	82.5		
16000	59.7	59.7	71.3	71.3	79.1	79.1	80.0		
20000	56.4	56.4	67.6	67.6	76.7	76.7	77.3		
25000	52.8	52.8	63.6	63.6	74.2	74.2	74.3		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	C-121 APPROACH POWER										S-T-E									
	35 IN HG 2600 RPM																			
	AIRSPEED = 140 KNOTS																			
	TEMP = 59 F REL HUMID = 70 %																			
	DELTA N = 0.0 00																			
	NO. OF RECORDS: 8																			
	IDENT: 0.6-075-105-290176-A																			
200	(.	(.
250	(.	(.
315	(.	(.
400	(.	(.
500	(.	(.
630	(.	(.
800	(.	(.
1000	(.	(.
1250	(.	(.
1600	(.	(.
2000	(.	(.
2500	(.	(.
3150	(.	(.
4000	(.	(.
5000	(.	(.
6300	(.	(.
8000	(.	(.
10000	(.	(.
12500	(.	(.
16000	(.	(.
20000	(.	(.
25000	(.	(.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:		
GROUND-TO-GROUND PROPAGATION																								OMEGA 5.6		
AIRCRAFT:																								A/C CODE: 075		
C-121																								OPS CODE: 105		
35 IN HG 2600 RPM																								REL HUMID = 70 %		
AIRSPEED = 140 KNOTS																								29 JAN 76		
DELTA N = 0.0 DB																								PAGE L3		
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	90	91	85	95	100	107	94	97	98	94	93	94	91	86	83	83	83	83	84	84	80	77	76	76		
250	88	89	83	93	98	105	92	95	96	92	91	92	89	84	81	81	81	81	81	82	78	75	73	73		
315	86	87	81	91	96	103	90	93	94	90	89	90	86	82	79	79	78	79	79	80	75	72	69	69		
400	84	85	79	89	94	100	88	91	92	88	87	88	84	80	77	76	76	76	77	77	73	69	66	65		
500	82	83	77	87	92	98	86	89	90	86	84	86	82	78	75	74	74	74	74	74	70	65	62	60		
630	80	81	75	85	89	95	83	86	88	84	82	83	80	76	73	72	71	71	71	71	67	62	58	54		
800	78	79	73	83	87	93	80	83	86	82	80	81	78	73	70	69	69	69	68	68	63	58	52	48		
1000	76	77	71	80	84	90	77	80	83	80	78	79	76	71	68	67	66	66	65	64	59	53	47	40		
1250	74	75	68	77	80	87	74	77	80	78	76	77	73	69	65	64	63	63	62	60	55	48	40	31		
1500	72	72	64	73	77	83	71	74	77	75	74	75	71	66	63	62	60	60	58	56	50	42	32	20		
2000	69	69	61	69	73	79	67	70	73	73	71	72	68	64	60	59	57	56	54	51	44	34	22	7		
2500	65	65	56	65	69	75	63	65	70	69	69	70	66	61	57	55	54	52	49	45	38	26	11			
3150	61	60	52	60	64	70	58	60	65	65	65	67	63	58	54	52	50	47	44	38	30	15				
4000	57	55	46	55	58	64	52	55	60	61	62	64	60	55	50	48	45	42	37	30	20	3				
5000	52	51	42	50	54	60	47	50	54	55	58	59	57	51	46	43	40	36	29	20	8					
6300	46	46	37	45	49	55	42	45	48	50	53	55	52	47	42	38	34	29	20							
8000	44	44	35	43	47	52	40	42	45	47	50	52	49	43	37	32	27	20	10							
10000	42	42	33	41	44	50	37	39	42	43	46	48	44	38	31	25	19	10								
12500	40	39	30	38	42	47	34	36	39	40	43	43	39	32	24	17	9									
16000	38	37	28	36	39	45	31	33	36	36	38	38	33	25	16	7										
20000	35	35	26	33	36	42	28	30	32	32	33	33	26	17	7											
25000	33	32	23	31	34	38	25	26	28	27	27	26	18	8												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:											
(OPERATION:) WEATHEROLOGY:											
(APPROACH POWER) TEMP											
(35 IN HG 2600 RPM) REL HUMID = 70 %											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											
())											

[illegible]

2350 RPM

TEMP = 59 F
REL HUMID = 70 %

PNLT = 106.8 PNOB
PNL = 104.6 PNOB
ALT = 92.2 DBA
AL = 90.0 DBA

NO. OF RECORDS = 4

IDENT: 6.6-075-106-290176

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																							
AIR-TO-GROUND PROPAGATION																							
AIRCRAFT:																							
C-121																							
OPERATION:																							
INTERMEDIATE POWER																							
40 IN HG 2350 RPM																							
METEOROLOGY:																							
TEMP																							
REL HUMID = 70 %																							
AIRSPEED = 150 KNOTS																							
DELTA N = 0.0 DB																							
PAGE 14																							
OMEGA 6.6																							
A/C CODE: 075																							
OPS CODE: 106																							
PROFILE VER: A																							
29 JAN 76																							
IDENTIFICATION:																							

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 5.6	
(OPERATION:) METEOROLOGY:) A/C CODE: 075											
(INTERMEDIATE POWER) TEMP = 59 F) OPS CODE: 106											
(40 IN HG 2350 RPM) REL HUMID = 70 %) PROFILE VER: A											
(AIRSPEED = 150 KNOTS) DELTA N = 0.0 DB) 29 JAN 76											
()										PAGE 14	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	104.8	107.0	120.2	122.4	105.0	106.9	111.5				
250	102.7	104.9	113.1	120.3	103.9	105.8	110.4				
315	100.6	102.9	115.9	118.1	102.8	104.7	109.2				
400	98.5	100.8	113.7	116.0	101.7	103.6	108.0				
500	96.4	98.6	111.5	113.7	100.6	102.5	106.8				
630	94.3	96.5	109.2	111.4	99.5	101.4	105.5				
800	92.1	94.3	106.9	109.1	98.3	100.2	104.2				
1000	90.0	92.2	104.6	106.8	97.1	99.0	102.9				
1250	87.7	90.0	102.2	104.4	95.9	97.8	101.5				
1600	85.5	87.7	99.7	101.9	94.7	96.6	100.0				
2000	83.2	85.4	97.3	99.5	93.4	95.3	98.6				
2500	80.9	83.1	94.7	97.0	92.1	94.0	97.0				
3150	78.5	80.7	92.2	94.4	90.7	92.6	95.5				
4000	76.1	77.9	89.5	91.3	89.3	90.8	93.4				
5000	73.6	74.9	86.8	88.1	87.8	88.9	91.4				
6300	71.0	71.9	84.0	84.9	86.2	87.0	89.2				
8000	68.3	68.8	81.1	81.6	84.5	84.9	87.0				
10000	65.5	65.5	78.1	78.1	82.7	82.7	84.6				
12500	62.6	62.6	74.9	74.9	80.8	80.8	82.3				
16000	59.6	59.6	71.3	71.3	78.8	78.8	79.8				
20000	56.3	56.3	67.5	67.5	76.5	76.5	77.0				
25000	52.8	52.8	63.4	63.4	74.0	74.0	73.8				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	C-121	INTERMEDIATE POWER	(	S-T	E
250	(	40 IN HG	2350 RPM	(	.	.
315	(	AIR SPEED = 150 KNOTS		(	.	.
400	(	TEMP = 59 F	REL HUMID = 70 %	(	.	.
500	(	DELTA N = 0.0 DB		(	.	.
630	(	NO. OF RECORDS: 4		(	.	.
800	(	IDENT: 6.6-075-106-290176-A		(	.	.
1000	(			(	.	.
1250	(			(	.	.
1600	(			(	.	.
2000	(			(	.	.
2500	(			(	.	.
3000	(			(	.	.
3500	(			(	.	.
4000	(			(	.	.
4500	(			(	.	.
5000	(			(	.	.
5500	(			(	.	.
6000	(			(	.	.
6500	(			(	.	.
7000	(			(	.	.
7500	(			(	.	.
8000	(			(	.	.
8500	(			(	.	.
9000	(			(	.	.
9500	(			(	.	.
10000	(			(	.	.
10500	(			(	.	.
11000	(			(	.	.
11500	(			(	.	.
12000	(			(	.	.
12500	(			(	.	.
13000	(			(	.	.
13500	(			(	.	.
14000	(			(	.	.
14500	(			(	.	.
15000	(			(	.	.
15500	(			(	.	.
16000	(			(	.	.
16500	(			(	.	.
17000	(			(	.	.
17500	(			(	.	.
18000	(			(	.	.
18500	(			(	.	.
19000	(			(	.	.
19500	(			(	.	.
20000	(			(	.	.
20500	(			(	.	.
21000	(			(	.	.
21500	(			(	.	.
22000	(			(	.	.
22500	(			(	.	.
23000	(			(	.	.
23500	(			(	.	.
24000	(			(	.	.
24500	(			(	.	.
25000	(			(	.	.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
GROUND-TO-GROUND PROPAGATION												IDENTIFICATION:												
AIRCRAFT:												OMEGA 6.6												
(OPERATIONS:												) METEOROLOGY:												
(INTERMEDIATE POWER												) TEMP												
(40 IN HG 2350 RPM												) REL HUMID = 70 %												
(AIRSPEED = 150 KNOTS												) DELTA M = 0.0 DB												
(												) PAGE 14												
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																						
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	87	59	88	91	99	139	92	94	93	69	92	93	89	84	83	82	82	82	82	82	78	76	76	80
250	85	87	86	89	97	107	90	92	91	87	90	91	86	82	80	88	79	79	77	77	78	76	73	76
315	83	85	84	87	95	135	88	90	89	85	88	89	84	80	78	76	77	77	77	77	73	70	70	72
400	81	83	82	85	93	103	86	88	87	83	85	87	82	78	76	76	75	75	74	75	70	67	66	68
500	79	81	80	83	91	100	83	86	85	81	83	85	80	76	74	73	73	72	72	72	67	63	52	62
630	77	79	78	81	89	98	81	83	83	79	81	83	78	73	72	71	78	78	69	69	63	60	57	56
800	75	77	76	78	86	95	78	80	81	77	79	81	76	71	69	69	67	67	66	65	60	55	52	49
1000	73	75	73	75	83	92	75	77	79	75	77	79	73	69	67	66	65	64	63	61	55	53	45	41
1250	71	73	70	72	80	89	72	74	76	73	75	76	71	66	64	63	62	61	59	57	51	44	38	30
1600	69	69	67	69	76	86	68	70	73	70	72	74	69	64	62	60	59	57	55	52	45	37	28	18
2000	66	66	63	65	73	82	64	67	69	68	70	72	66	61	59	57	55	53	50	46	39	29	18	3
2500	62	62	59	61	68	77	63	62	65	64	68	69	63	58	56	54	51	49	45	40	32	20	6	
3150	58	57	55	56	63	72	55	57	61	60	64	66	61	55	52	50	47	44	39	32	23	12		
4000	54	52	49	50	58	67	49	51	55	55	60	63	57	52	48	46	42	38	32	23	12			
5000	49	49	44	45	53	62	44	46	49	50	56	58	54	48	44	41	36	31	23	12				
6300	43	43	40	41	48	57	39	41	43	44	51	54	49	44	39	35	30	23	13					
8000	41	41	38	39	46	55	37	39	40	41	48	53	45	39	34	29	22	14	0					
10000	39	39	35	36	43	52	34	36	37	38	44	46	40	33	27	21	13	2						
12500	37	36	33	34	41	49	31	33	34	34	41	43	35	27	20	12	2							
16000	35	34	31	31	38	46	28	29	30	30	35	36	28	19	11	1								
20000	32	32	28	29	35	43	25	25	26	25	30	29	21	10										
25000	30	29	25	26	32	49	21	21	21	19	23	22	12											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:											
(OPERATIONS:											
(INTERMEDIATE POWER											
(40 IN HG 2350 RPM											
(
(AIRSPEED = 150 KNOTS											
(DELTA M = 0.0 DB											
SLANT DISTANCE										SEL	
(FEET)	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**				
	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)				
200	99.6	102.0	115.2	117.4	109.0	101.6	106.5				
250	97.7	99.9	113.1	115.2	98.3	100.7	105.3				
315	95.6	97.8	110.9	113.0	97.8	99.7	104.1				
400	93.5	95.6	108.6	110.7	95.7	98.5	102.8				
500	91.2	93.3	106.1	108.3	95.4	97.2	101.4				
630	88.8	90.9	103.5	105.7	94.0	95.8	99.8				
800	86.3	88.4	100.8	102.9	92.5	94.3	98.0				
1000	83.7	85.9	97.9	100.0	90.9	92.7	95.1				
1250	81.0	83.2	94.7	96.8	89.2	91.0	93.9				
1600	78.1	80.3	91.2	93.4	87.3	89.2	91.5				
2000	75.2	77.3	87.5	89.7	85.4	87.2	89.7				
2500	72.0	74.2	83.3	85.5	83.2	85.0	87.6				
3150	68.5	70.7	79.4	81.6	80.7	82.6	85.1				
4000	64.6	66.4	73.6	75.3	77.8	79.3	81.7				
5000	60.3	61.6	69.0	69.9	74.5	75.6	77.1				
6300	55.7	56.6	63.4	64.2	70.9	71.6	73.5				
8000	51.9	52.4	59.1	59.5	66.1	66.5	68.9				
10000	47.9	47.9	54.5	54.5	61.1	61.1	63.9				
12500	43.5	43.5	49.4	49.4	56.0	56.0	58.8				
16000	38.8	38.8	44.6	44.6	51.0	51.0	53.8				
20000	33.9	33.9	39.1	39.1	46.1	46.1	48.9				
25000	29.0	29.0	32.4	32.4	40.2	40.2	43.0				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 ** BASED ON SUGGESTED TONE CORRECTION FUNCTION.

	INTERMEDIATE POWER											
	C-121	40 IN HG	2350 RPM									
200	((((((((((((
250	((((((((((((
315	((((((((((((
400	((((((((((((
500	((((((((((((
S 630	((((((((((((
L 800	((((((((((((
N 1000	((((((((((((
T 1250	((((((((((((
I 1600	((((((((((((
S 2000	((((((((((((
T 2500	((((((((((((
A 3150	((((((((((((
N 4000	((((((((((((
F 5000	((((((((((((
E 6300	((((((((((((
E 8000	((((((((((((
10000	((((((((((((
12500	((((((((((((
16000	((((((((((((
20000	((((((((((((
25000	((((((((((((
	40	50	60	70	80	90	100	110	120			
	NOISE LEVEL IN DB											

	INTERMEDIATE POWER										S-T-E	
	C-121	40 IN HG	2350 RPM									
200	((((((((((((
250	((((((((((((
315	((((((((((((
400	((((((((((((
500	((((((((((((
630	((((((((((((
800	((((((((((((
1000	((((((((((((
1250	((((((((((((
1600	((((((((((((
2000	((((((((((((
2500	((((((((((((
3150	((((((((((((
4000	((((((((((((
5000	((((((((((((
6300	((((((((((((
8000	((((((((((((
10000	((((((((((((
12500	((((((((((((
16000	((((((((((((
20000	((((((((((((
25000	((((((((((((

AIRSPEED = 150 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 4
 IDENT: 6.6-075-106-290176-A

S L A N T D I S T A N C E I N F E E T
 NOISE LEVEL IN DB

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
C-121 AIRCRAFT																		
ENG. R3350-93A																		
GROUND RUNUP																		
OPERATION:																		
IDLE POWER, C-121																		
ENGINE, 700 RPM																		
GROUND RUNUP																		
METEOROLOGY:																		
TEMP = 59 F																		
BAR PRESS = 29.92 IN HG																		
REL HUMID = 70 %																		
DELTA N = -6.0 DB																		
AIRCRAFT CODE 075																		
OPERATION CODE 00413																		
PROFILE VERSION A																		
17 MAY 76																		
PAGE C1																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	77	78	77	76	76	76	76	77	77	77	76	76	75	76	76	76	75	73
63	76	75	77	76	75	75	79	79	80	80	80	78	76	77	76	75	73	69
80	69	69	70	69	68	68	68	70	74	72	71	68	67	65	66	66	65	63
100	69	68	68	66	64	62	63	65	66	68	66	65	64	65	66	65	66	62
125	68	66	66	65	64	64	62	63	66	64	64	62	63	64	63	62	62	58
160	67	66	67	67	65	64	62	63	66	64	64	63	63	65	64	63	62	57
200	68	67	66	66	63	64	65	62	66	63	65	65	65	66	64	65	63	57
250	64	62	62	61	59	60	57	55	60	55	60	58	58	60	59	59	58	56
315	60	58	57	56	54	53	51	49	50	50	50	51	52	53	56	57	55	53
400	60	59	59	58	55	54	53	51	51	55	60	58	53	54	58	59	56	55
500	58	58	58	56	54	52	53	51	51	53	58	58	53	56	59	60	54	52
630	53	53	52	52	53	49	51	48	48	55	52	54	54	59	54	56	50	49
800	51	51	51	51	51	49	51	48	47	57	52	55	54	56	53	53	50	48
1000	50	50	50	50	50	50	49	49	49	51	51	53	54	56	53	51	48	47
1250	50	51	50	50	52	51	51	49	50	51	53	54	54	55	56	52	48	48
1600	50	51	50	51	51	49	49	50	50	52	54	54	53	58	55	51	47	47
2000	51	51	52	52	52	50	49	49	52	53	54	58	55	55	55	51	47	48
2500	51	51	53	52	51	50	50	49	51	51	53	56	55	53	54	49	46	47
3150	48	50	49	50	49	47	47	48	47	50	51	52	55	53	54	48	46	46
4000	48	49	49	49	48	47	47	48	48	52	53	55	54	54	53	49	46	47
5000	43	44	44	44	44	43	44	44	45	46	48	50	50	49	47	43	41	41
6300	40	41	40	40	41	40	41	40	43	45	48	48	47	45	47	41	38	39
8000	39<	41<	40<	44	44	47	50	46	45	48	48	52	52	53	53	47	32<	33<
10000	39	41	40	41	43	41	45	43	41	42	42	46	45	45	43	38	26<	27<
OVERALL	81	81	81	80	80	80	81	81	82	83	83	81	79	81	80	79	78	75

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(C-121 AIRCRAFT)																
(ENG. R3350-93A)																
(GROUND RUNUP)																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	82.7	82.3	82.2	81.5	80.9	81.1	81.8	82.6	83.0	84.2	83.6	84.7	84.2	83.4	84.6	83.3
250	80.4	80.0	79.8	79.1	78.5	78.6	79.3	79.1	79.3	81.8	81.1	82.2	81.8	81.1	82.3	81.0
315	78.1	77.6	77.4	76.8	76.2	76.1	76.8	76.5	76.8	79.3	78.6	79.7	79.4	78.5	79.6	78.7
400	75.6	75.2	75.0	74.3	73.7	73.5	74.2	74.0	74.2	76.7	76.0	77.2	76.9	76.1	77.6	76.2
500	73.1	72.6	72.5	71.8	71.2	70.9	71.6	71.3	71.6	74.1	73.3	74.6	74.1	73.4	75.2	73.8
630	70.3	69.9	69.9	69.1	68.5	68.2	68.8	68.5	68.8	71.4	70.6	71.9	71.1	70.7	72.6	71.2
800	67.5	67.0	67.1	66.4	65.7	65.4	66.0	65.6	66.0	68.7	67.8	69.1	68.1	67.8	70.0	68.7
1000	64.4	64.0	64.2	63.4	62.7	62.4	63.1	62.6	63.0	65.8	64.9	66.3	65.3	64.8	67.2	65.3
1250	61.3	60.9	60.9	60.1	59.3	59.0	59.7	59.3	59.7	62.6	61.6	63.1	62.1	61.5	64.2	62.0
1500	57.9	57.5	57.3	56.6	55.4	55.1	55.5	55.0	55.4	58.6	57.4	59.2	58.2	57.7	60.9	58.3
2000	54.1	53.8	53.5	52.9	51.0	50.6	50.6	49.9	50.4	53.9	52.7	55.2	55.2	53.4	57.3	54.3
2500	49.3	48.9	48.7	47.8	46.0	45.3	44.9	43.8	44.1	49.2	48.9	50.4	50.5	48.4	53.3	50.3
3150	43.6	43.3	42.9	41.8	40.1	39.2	38.9	37.1	36.2	44.0	43.6	44.8	44.6	43.1	48.8	45.4
4000	36.5	36.6	36.3	34.6	33.1	32.0	31.3	29.1	27.7	36.7	35.4	38.4	37.5	36.1	43.1	40.4
5000	29.2	29.0	28.4	26.4	24.8	23.5	22.1	13.0	13.5	29.7	28.6	30.9	30.0	28.4	37.6	34.6
6300	17.2	17.4	15.4	11.0	10.2	13.0	12.9			18.5	17.3	20.2	19.0	17.2	31.1	28.8
8000	8.9	9.3	8.5			4.5	3.7			10.3	9.1	10.5			24.1	21.3
10000	5	1.1	1.6							2.1	1.9				13.5	10.3
12500																3.5
15000															2.9	
20000																
25000																

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-121 AIRCRAFT																			
ENG. R3350-93A																			
GROUND RUNUP																			
OPERATIONS:																			
IDLE POWER, C-121																			
SINGLE ENGINE, 700 RPM																			
GROUND RUNUP																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRES = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -6.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-075-001																			
RUN 01																			
AIRCRAFT CODE 075																			
OPERATION CODE 00413																			
PROFILE VERSION A																			
17 MAY 76																			
PAGE E1																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.7	82.3	82.2	82.0	81.9	82.2	82.9	82.9	82.6	85.5	84.7	85.7	85.7	84.5	88.1	84.7	82.1	78.6	76.6
250	80.4	80.0	79.8	79.7	79.6	79.7	80.4	80.3	80.1	83.0	82.2	83.2	82.7	82.1	85.8	82.4	79.8	76.3	74.3
315	78.1	77.6	77.4	77.3	77.2	77.2	77.9	77.8	77.5	80.5	79.7	80.8	80.2	79.7	83.5	80.0	77.5	74.0	71.9
400	75.6	75.2	75.0	74.8	74.8	74.7	75.3	75.2	74.9	78.0	77.2	78.2	77.7	77.2	81.2	77.6	75.0	71.5	69.5
500	73.1	72.9	72.5	72.3	72.2	72.0	72.7	72.5	72.3	75.4	74.6	75.6	75.2	74.5	78.7	75.1	72.5	69.0	67.0
630	70.3	69.9	69.9	69.7	69.6	69.3	70.0	69.8	69.6	72.7	72.4	72.9	72.5	72.1	76.2	72.4	70.0	66.3	64.3
800	67.5	67.0	67.1	66.9	66.8	66.5	67.2	66.9	66.7	69.9	69.6	70.1	69.8	69.6	73.5	69.6	67.4	63.4	61.4
1000	64.4	64.0	64.2	64.0	63.8	63.5	64.2	63.9	63.7	67.1	66.0	67.3	66.9	65.9	70.7	66.7	64.6	60.6	58.3
1250	61.3	60.9	60.9	60.6	60.3	60.1	60.9	60.5	60.4	63.9	62.8	64.1	63.6	62.6	67.7	63.4	61.5	57.4	55.0
1600	57.9	57.5	57.3	57.1	56.5	56.2	56.7	56.2	56.1	59.9	58.6	60.2	60.0	58.8	64.4	59.7	58.1	53.8	51.4
2000	54.1	53.8	53.5	53.3	52.1	51.7	51.7	51.2	51.2	55.2	53.9	56.2	56.0	54.5	60.1	55.6	54.5	49.9	47.5
2500	49.3	48.9	48.7	48.4	47.1	46.4	46.1	45.0	44.8	50.5	48.1	51.5	51.4	49.5	56.1	51.3	50.3	44.8	42.2
3150	43.6	43.3	42.9	42.3	41.1	40.3	40.0	39.3	37.3	45.3	41.8	45.9	45.5	43.2	52.3	45.8	44.9	38.0	35.5
4000	36.5	36.6	36.0	35.0	33.9	30.9	32.2	30.1	28.2	37.7	33.6	39.2	38.2	35.9	45.9	39.1	38.6	30.9	27.5
5000	29.2	29.0	28.4	26.8	25.4	22.1	22.7	13.7	13.8	30.5	24.3	31.5	30.5	26.9	39.7	32.1	31.3	19.6	14.7
6300	17.2	17.4	15.4	11.2	10.7	13.4	13.3			19.0	7.7	20.6	19.3	13.6	32.6	21.3	21.8	7.7	2.0
8000	6.9	9.3	8.5			4.7	3.9			10.5		9.5	10.6		24.8	10.6	12.7		
10000	6	1.1	1.6							2.1			1.9		13.5		3.5		
12500															2.9				
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT:																		
(C-121 AIRCRAFT)																		
(ENG. R350-93A)																		
(GROUND RUNUP)																		
DISTANCE (FEET)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.5	67.1	67.0	66.5	65.8	65.4	64.3	64.4	67.7	66.5	66.5	69.0	68.0	71.7	68.6	66.7	63.5	62.1
250	65.4	65.0	64.9	64.4	63.6	63.2	62.1	62.3	65.6	64.4	66.5	66.8	65.8	69.6	66.4	64.6	61.4	59.9
315	63.3	62.9	62.8	62.3	61.5	61.1	60.0	59.9	63.1	62.2	64.4	64.6	63.6	67.4	64.2	62.5	59.3	57.8
400	61.2	60.8	60.6	60.1	59.3	58.8	58.6	57.7	57.9	61.3	63.0	62.2	62.3	65.2	62.0	60.4	57.2	55.6
500	59.0	58.5	58.3	57.8	57.0	56.5	56.3	55.4	57.7	59.1	57.7	59.9	58.9	63.0	59.7	58.1	55.0	53.4
630	56.6	56.2	56.0	55.5	54.6	54.2	54.0	53.3	56.8	55.4	57.6	57.5	56.5	60.7	57.3	55.9	52.7	51.1
800	54.2	53.8	53.6	53.1	52.2	51.7	51.6	50.6	54.4	52.9	55.2	55.0	53.9	58.4	54.9	53.5	50.3	48.7
1000	51.7	51.3	51.1	50.5	49.7	49.1	48.1	48.4	52.0	50.4	52.8	52.5	51.3	55.9	52.4	51.1	47.8	46.2
1250	49.0	48.7	48.4	47.9	47.1	46.5	45.5	45.8	49.4	47.8	50.2	49.8	48.6	53.4	49.8	48.6	45.2	43.6
1600	46.2	45.9	45.6	45.1	44.3	43.5	42.6	42.6	46.6	44.9	47.4	46.9	45.7	50.8	47.0	46.0	42.5	40.9
2000	43.3	43.0	42.6	42.1	41.3	40.4	39.5	39.7	43.6	41.8	44.5	43.9	42.7	48.1	44.1	43.3	39.6	38.1
2500	39.9	39.7	39.3	38.7	38.0	37.0	36.1	36.3	40.3	38.5	41.3	40.8	39.4	45.2	41.0	40.2	36.3	34.8
3150	36.1	35.8	35.6	35.1	34.5	33.3	32.4	32.5	36.5	34.8	37.7	37.3	36.0	42.1	37.5	36.8	32.7	31.2
4000	32.0	31.6	31.5	31.0	30.6	29.3	28.3	28.4	32.5	30.9	33.9	33.5	32.2	38.7	33.7	33.0	28.8	27.3
5000	27.6	27.6	27.1	26.7	26.4	25.0	24.0	24.1	28.1	26.8	29.7	29.3	28.0	34.9	29.5	28.8	24.5	23.0
6300	23.0	23.1	22.5	22.1	21.9	20.4	19.5	19.6	23.6	22.3	25.3	24.8	23.6	30.8	25.0	24.3	20.0	18.5
8000	19.5	19.5	19.3	18.4	18.0	16.5	15.8	15.9	21.3	20.3	23.4	22.9	21.5	28.5	21.0	20.7	16.4	14.6
10000	15.8	15.7	15.2	14.6	13.9	12.5	13.4	12.1	17.0	14.3	17.3	16.7	15.1	21.8	16.8	16.8	12.5	10.6
12500	11.9	11.8	11.4	10.6	9.8	8.5	9.5	8.5	13.0	10.3	13.0	12.4	10.5	16.5	12.4	12.6	8.5	6.5
16000	8.6	7.7	7.4	6.5	5.6	4.6	5.6	4.8	9.1	6.5	9.7	8.7	7.9	10.8	7.8	8.2	4.4	2.2
20000	4.0	3.6	3.4	2.5	1.4	1.0	2.0	1.5	4.7	3.0	4.5	3.4	1.4	5.0	3.3	3.6	.3	
25000	.1								1.3	.6								

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-121 AIRCRAFT																				
ENG. R3350-9JA																				
GROUND RUNUP																				
OPERATIONS:																				
IDLE POWER, G-121																				
SINGLE ENGINE, 700 RPM																				
GROUND RUNUP																				
METEOROLOGICALS:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -6.0 DB																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-075-001																				
RUN 01																				
AIRCRAFT CODE 075																				
OPERATION CODE 00413																				
PROFILE VERSION A																				
17 MAY 76																				
PAGE 61																				
ANGLE (DEGREES)																				
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
(FEET)	67.5	67.1	67.0	67.0	66.8	66.5	66.2	65.5	65.1	69.0	67.7	69.7	69.8	69.1	75.2	69.9	68.0	64.0	62.1	
200	65.4	65.0	64.9	64.9	64.7	64.3	64.0	63.3	63.0	66.9	65.6	67.5	67.6	66.9	73.1	67.8	65.9	62.0	59.9	
250	63.3	62.9	62.8	62.8	62.6	62.2	61.9	61.1	60.9	64.8	63.4	65.4	65.4	64.6	70.9	65.6	63.8	59.9	57.8	
315	61.2	60.8	60.6	60.6	60.3	60.0	59.7	58.9	58.7	62.6	61.2	63.2	63.1	62.4	68.8	63.3	61.6	57.7	55.6	
400	59.0	58.5	58.3	58.4	58.1	57.7	57.4	56.6	56.4	60.4	58.9	60.9	60.8	60.0	66.5	61.0	59.4	55.5	53.4	
500	56.6	56.2	56.0	56.0	55.7	55.3	55.1	54.3	54.1	58.1	56.5	58.6	58.4	57.5	64.2	58.7	57.1	53.2	51.1	
630	54.2	53.8	53.6	53.6	53.3	52.8	52.7	51.8	51.7	55.7	54.1	56.2	55.9	55.0	61.9	56.2	54.8	50.8	48.7	
800	51.7	51.3	51.1	51.1	50.8	50.3	50.2	49.4	49.2	53.3	51.6	53.5	53.3	52.4	59.5	53.7	52.4	48.4	46.2	
1000	49.0	48.7	48.4	48.4	48.1	47.6	47.7	46.8	46.6	50.7	49.0	51.2	50.6	49.7	57.0	51.1	49.9	45.8	43.6	
1250	46.2	45.9	45.6	45.6	45.3	44.7	44.8	43.9	43.8	47.9	46.1	48.4	47.8	46.8	54.3	48.4	47.3	43.0	40.9	
1600	43.3	43.0	42.8	42.8	42.4	41.8	41.9	41.0	40.8	44.9	43.1	45.5	44.8	43.8	51.6	45.5	44.6	40.1	38.1	
2000	39.9	39.7	39.3	39.3	39.1	38.2	38.4	37.4	37.3	41.7	39.6	42.3	41.6	40.5	48.7	42.4	41.5	36.8	34.8	
2500	36.1	36.0	35.6	35.6	35.3	34.4	34.6	33.7	33.2	38.3	36.0	38.8	38.1	37.0	45.6	38.9	38.1	33.2	31.2	
3150	32.0	32.0	31.5	31.4	31.4	30.2	30.6	29.3	29.0	34.2	31.9	34.7	34.2	33.0	41.5	34.8	34.0	29.2	27.3	
4000	27.6	27.6	27.1	27.0	27.0	25.6	26.2	24.8	24.5	29.8	27.4	30.3	29.8	28.7	37.0	30.3	29.5	24.8	23.0	
5000	23.0	23.1	22.5	22.3	22.3	20.9	21.5	20.0	19.9	25.2	22.8	25.7	25.1	24.0	32.2	25.6	24.8	20.2	18.5	
6300	19.5	19.5	19.0	18.5	18.2	16.7	17.5	16.1	16.0	21.2	18.6	21.6	21.0	19.7	27.2	21.3	20.9	16.5	14.6	
8000	15.8	15.7	15.2	14.6	13.9	12.5	13.4	12.1	12.1	17.0	14.3	17.3	16.7	15.1	21.0	16.0	16.8	12.5	10.6	
10000	11.9	11.8	11.4	10.8	9.8	8.5	9.5	8.4	8.5	13.0	10.3	13.0	12.4	10.5	16.5	12.4	12.6	8.5	6.5	
12500	8.0	7.7	7.4	6.5	5.6	4.6	5.6	4.8	5.1	8.4	6.5	8.7	7.9	5.9	10.8	7.8	8.2	4.4	2.2	
16000	4.0	3.6	3.4	2.5	1.4	1.0	2.0	1.5	1.9	4.7	3.0	4.5	3.4	1.4	5.0	3.3	3.6	.3		
20000	.1									1.0		.6								

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-121 AIRCRAFT
 ENG. R335C-93A
 GROUND RUNUP
 IDENTIFICATION:
 OMEGA 8.2
 TEST 74-075-001
 RUN 01
 AIRCRAFT CODE 075
 OPERATION CODE 00413
 PROFILE VERSION A
 17 MAY 76
 PAGE J1
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -6.0 08
 P=PNLT
 A=ALT
 T=ALT

ANGLE IN DEGREES	0	10	20	30	40	50	60	70	80	90
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)														
1/3 OCTAVE BAND														
DISTANCE = 250 FEET														
NOISE SOURCE/SUBJECT:														
C-121 AIRCRAFT														
ENG. R3350-93A														
GROUND RUNUP														
OPERATION:														
TAXI POWER, C-121														
SINGLE ENGINE, 1200 RPM														
GROUND RUNUP														
METEOROLOGY:														
TEMP = 59 F														
BAR PRESS = 29.92 IN HG														
REL HUMID = 73 %														
DELTA N = -6.0 DB														
BAND CENTER														
FREQ (HZ)														
50	76	75	78	76	77	76	70	60	50	40	30	20	10	0
60	79	82	85	86	86	86	85	85	85	85	85	85	85	85
80	80	79	84	83	84	84	84	84	84	84	84	84	84	84
100	79	79	79	79	79	79	79	79	79	79	79	79	79	79
125	78	76	77	75	76	76	75	75	75	75	75	75	75	75
160	78	79	79	74	76	76	75	72	73	73	73	73	73	73
200	78	77	77	74	74	74	73	73	73	73	73	73	73	73
250	76	77	76	73	73	73	70	68	68	68	68	68	68	68
315	76	75	74	71	68	68	65	64	64	64	64	64	64	64
400	74	74	73	72	67	67	65	64	64	64	64	64	64	64
500	72	72	71	69	66	66	62	62	62	62	62	62	62	62
630	68	68	68	67	63	63	61	60	60	60	60	60	60	60
800	65	65	65	64	61	61	60	59	59	59	59	59	59	59
1000	62	63	63	62	61	61	59	58	58	58	58	58	58	58
1250	61	61	61	61	60	60	58	57	57	57	57	57	57	57
1600	61	61	62	61	60	60	57	57	57	57	57	57	57	57
2000	60	61	61	61	60	60	59	58	58	58	58	58	58	58
2500	60	61	61	61	61	61	60	59	59	59	59	59	59	59
3150	60	64	64	64	64	64	63	62	62	62	62	62	62	62
4000	58	59	60	60	60	60	60	60	60	60	60	60	60	60
5000	54	55	56	56	56	56	56	56	56	56	56	56	56	56
6300	52	52	53	53	53	53	53	53	53	53	53	53	53	53
8000	51	52	53	53	53	53	53	53	53	53	53	53	53	53
10000	52	53	54	53	53	53	54	54	54	54	54	54	54	54
OVERALL	88	88	89	90	90	90	89	89	89	89	89	89	89	89

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PHON)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-12A AIRCRAFT																
ENG. R3350-31A																
GROUND PUMP																
OPERATION:																
TAXI POWER, C-12A																
SINGLE ENGINE, 1200 RPM																
GROUND RUNUP																
METEOROLOGY:																
59 F																
DAR PRESS = 29.92 IN HG																
REL HUMID = 76 %																
DELTA M = -6.0 DB																
IDENTIFICATION:																
OMEGA 2.2																
TEST 74-075-001																
RUN 02																
AIRCRAFT 300E 075																
OPERATION CODE 00415																
PROFILE VERSION A																
17 MAY 70																
PAGE 52																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	94.1	93.0	91.7	90.4	89.2	88.0	86.8	85.6	84.4	83.2	82.0	80.8	79.6	78.4	77.2	76.0
250	91.9	90.7	89.5	88.3	87.1	85.9	84.7	83.5	82.3	81.1	79.9	78.7	77.5	76.3	75.1	73.9
315	89.7	88.5	87.3	86.1	84.9	83.7	82.5	81.3	80.1	78.9	77.7	76.5	75.3	74.1	72.9	71.7
430	87.4	86.2	85.0	83.8	82.6	81.4	80.2	79.0	77.8	76.6	75.4	74.2	73.0	71.8	70.6	69.4
500	85.0	83.8	82.6	81.4	80.2	79.0	77.8	76.6	75.4	74.2	73.0	71.8	70.6	69.4	68.2	67.0
630	82.3	81.1	79.9	78.7	77.5	76.3	75.1	73.9	72.7	71.5	70.3	69.1	67.9	66.7	65.5	64.3
800	79.8	78.6	77.4	76.2	75.0	73.8	72.6	71.4	70.2	69.0	67.8	66.6	65.4	64.2	63.0	61.8
1000	77.1	75.9	74.7	73.5	72.3	71.1	69.9	68.7	67.5	66.3	65.1	63.9	62.7	61.5	60.3	59.1
1200	74.1	72.9	71.7	70.5	69.3	68.1	66.9	65.7	64.5	63.3	62.1	60.9	59.7	58.5	57.3	56.1
1500	71.1	69.9	68.7	67.5	66.3	65.1	63.9	62.7	61.5	60.3	59.1	57.9	56.7	55.5	54.3	53.1
2000	67.9	66.7	65.5	64.3	63.1	61.9	60.7	59.5	58.3	57.1	55.9	54.7	53.5	52.3	51.1	49.9
2500	63.9	62.7	61.5	60.3	59.1	57.9	56.7	55.5	54.3	53.1	51.9	50.7	49.5	48.3	47.1	45.9
3150	59.1	57.9	56.7	55.5	54.3	53.1	51.9	50.7	49.5	48.3	47.1	45.9	44.7	43.5	42.3	41.1
4000	53.9	52.7	51.5	50.3	49.1	47.9	46.7	45.5	44.3	43.1	41.9	40.7	39.5	38.3	37.1	35.9
5000	48.3	47.1	45.9	44.7	43.5	42.3	41.1	39.9	38.7	37.5	36.3	35.1	33.9	32.7	31.5	30.3
6300	42.0	40.8	39.6	38.4	37.2	36.0	34.8	33.6	32.4	31.2	30.0	28.8	27.6	26.4	25.2	24.0
8000	38.9	37.7	36.5	35.3	34.1	32.9	31.7	30.5	29.3	28.1	26.9	25.7	24.5	23.3	22.1	20.9
10000	31.1	30.0	29.0	28.0	27.0	26.0	25.0	24.0	23.0	22.0	21.0	20.0	19.0	18.0	17.0	16.0
12000	24.4	23.3	22.3	21.3	20.3	19.3	18.3	17.3	16.3	15.3	14.3	13.3	12.3	11.3	10.3	9.3
15000	14.9	14.0	13.1	12.2	11.3	10.4	9.5	8.6	7.7	6.8	5.9	5.0	4.1	3.2	2.3	1.4
20000	5.4	4.7	4.0	3.3	2.6	1.9	1.2	0.5	-0.2	-0.9	-1.6	-2.3	-3.0	-3.7	-4.4	-5.1
25000																

> SPL DATA WERE INTERPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OASL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-121 AIRCRAFT																			
ENG. R3351-93A																			
GROUND RUNUP																			
OPERATION:																			
TAXI POWER, C-121																			
SINGLE ENGINE, 1200 RPM																			
GROUND RUNUP																			
METEOROLOGY:																			
TEMP = 53 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA H = -6.0 DB																			
IDENTIFICATIONS:																			
OMEGA 8-2																			
TEST 74-075-001																			
AIRCRAFT CODE 075																			
OPERATION CODE 0015																			
PROFILE VERSION A																			
17 MAY 76																			
PAGE F2																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	60.0	73.8	79.8	78.8	76.7	75.2	74.3	74.0	72.8	74.5	74.6	74.8	75.3	77.0	75.3	73.2	66.2	56.2	46.2
220	77.9	77.7	77.7	76.7	74.6	73.0	72.2	71.9	70.7	72.4	72.5	72.6	73.1	74.9	73.2	71.1	64.1	54.1	44.1
315	75.9	75.6	75.6	74.5	72.4	70.3	70.3	69.7	68.5	70.3	70.4	70.5	71.0	72.7	71.0	68.9	62.0	52.3	42.0
400	73.8	73.5	73.5	72.3	70.2	68.7	67.8	67.5	66.3	68.1	68.2	68.3	68.7	70.5	68.8	66.7	59.8	49.8	39.8
500	71.6	71.3	71.2	70.1	67.9	66.4	65.6	65.2	64.1	65.9	65.9	66.1	66.5	68.7	66.5	64.5	57.7	47.7	37.7
600	69.3	69.0	68.9	67.8	65.6	64.1	63.3	62.8	61.7	63.6	63.7	63.8	64.1	65.8	64.2	62.2	55.4	45.4	35.4
800	67.0	66.6	66.6	65.4	63.2	61.6	60.9	60.4	59.3	61.2	61.3	61.4	61.7	63.4	61.8	59.8	53.1	43.1	33.1
1000	64.6	64.2	64.1	62.9	60.7	59.1	58.4	57.8	56.8	58.7	58.9	58.9	59.2	60.8	59.3	57.4	50.7	40.7	30.7
1250	62.4	61.6	61.5	60.3	58.0	56.4	55.7	55.0	54.0	55.9	56.2	56.2	56.5	58.1	56.6	54.8	48.2	38.2	28.2
1600	59.2	58.9	58.7	57.5	55.1	53.5	52.7	52.0	50.9	52.9	53.2	53.2	53.5	55.2	53.8	52.1	45.5	35.5	25.5
2000	56.4	56.1	55.9	54.6	52.1	50.4	49.6	48.8	47.7	49.6	50.0	50.1	50.4	52.2	50.8	49.2	42.7	32.7	22.7
2500	53.2	52.8	52.6	51.3	48.7	46.9	46.2	45.3	44.1	46.0	46.5	46.5	47.0	48.9	47.0	45.1	39.5	29.5	19.5
3150	49.5	49.2	49.0	47.7	45.1	43.2	42.4	41.5	40.3	42.2	42.6	42.9	43.4	45.3	43.4	41.2	36.1	26.1	16.1
4000	45.5	45.2	45.0	43.7	41.1	39.2	38.4	37.4	36.1	37.9	38.3	38.6	39.4	41.3	39.4	36.9	32.2	22.2	12.2
5000	41.0	40.8	40.7	39.3	36.8	34.9	34.1	33.0	31.7	33.6	34.5	34.5	35.2	37.3	35.1	32.8	28.5	18.5	8.5
6300	36.5	36.3	36.2	34.8	32.3	30.4	29.6	28.5	27.2	29.1	30.0	30.1	30.7	32.8	30.6	28.4	24.5	14.5	4.5
8000	33.0	32.8	32.6	31.2	28.6	26.7	25.9	24.7	23.5	25.5	26.3	26.3	26.9	28.5	27.5	26.4	23.6	13.6	3.6
10000	29.3	29.0	28.8	27.4	24.7	22.8	22.2	20.9	19.3	22.1	22.6	22.6	22.9	24.3	23.2	22.1	19.9	9.9	1.9
12500	25.3	24.9	24.7	23.4	20.7	18.9	18.3	17.1	16.2	18.5	18.9	18.8	18.8	19.8	18.6	17.7	15.9	5.9	1.7
15000	21.0	20.6	20.4	19.1	16.6	15.0	14.5	13.4	12.7	15.1	15.3	15.2	14.9	15.3	14.4	13.1	11.7	1.7	1.7
20000	16.3	15.9	15.8	14.6	12.5	11.2	10.9	9.9	9.4	11.9	12.0	11.8	11.2	11.1	10.1	8.5	7.3	1.7	1.7
25000	11.4	11.0	11.0	10.1	8.6	7.6	7.4	6.5	6.3	8.9	8.9	8.6	7.9	7.4	6.2	4.2	3.6	1.7	1.7
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DJA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS:									
(C-121 AIRCRAFT										) OMEGA 8.2									
(ENG. R3350-93A										) TEST 74-075-001									
(GROUND RUNUP										) RUN 02									
(										) AIRCRAFT CODE 075									
(										) OPERATION CODE 00-15									
(										) PROFILE VERSION A									
(										) 17 MAY 75									
(										) PAGE 02									
(
DISTANCE		ANGLE (DEGREES)																	
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	40.0	81.2	81.8	81.0	78.3	76.2	74.3	74.0	72.8	74.5	74.6	74.6	75.0	77.0	76.0	74.1	67.3	57.3	47.4
250	77.9	79.1	79.7	78.9	76.2	74.3	72.2	71.9	70.7	72.4	72.5	72.5	73.6	74.9	73.8	72.0	65.2	55.2	45.3
315	75.9	77.0	77.6	76.8	74.0	71.9	70.0	69.7	68.5	70.3	70.4	70.5	71.5	72.7	71.7	69.8	63.1	53.1	43.2
400	73.8	74.9	75.4	74.6	71.8	69.7	67.8	67.5	66.3	68.1	68.2	68.3	69.3	70.5	69.5	67.6	61.0	51.0	41.0
500	71.6	72.7	73.2	72.4	69.5	67.4	65.6	65.2	64.1	65.9	65.9	66.1	67.0	68.2	67.2	65.4	58.8	48.8	38.8
630	69.3	70.4	70.9	70.0	67.2	65.1	63.3	62.8	61.7	63.0	63.7	63.8	64.6	65.8	64.9	63.1	56.5	46.5	36.5
800	67.0	68.1	68.5	67.7	64.8	62.6	60.9	60.4	59.3	61.2	61.3	61.4	62.2	63.4	62.5	60.7	54.2	44.2	34.2
1000	64.6	65.6	66.1	65.2	62.3	60.1	58.4	57.8	56.6	58.7	58.8	58.9	59.7	60.8	60.8	58.9	52.4	42.4	32.4
1250	62.0	63.0	63.5	62.5	59.6	57.4	55.7	55.0	54.0	55.9	56.2	56.2	57.0	58.1	57.3	55.7	49.3	39.3	29.3
1600	59.2	60.3	60.7	59.8	56.9	54.5	52.7	52.0	50.9	52.9	53.2	53.2	54.0	55.2	54.5	53.0	46.6	36.6	26.6
2000	56.4	57.5	57.9	56.9	53.7	51.4	49.6	48.8	47.7	49.6	50.0	50.1	50.9	52.2	51.5	50.1	43.8	33.8	23.8
2500	53.2	54.3	54.6	53.6	50.3	48.0	46.2	45.3	44.1	46.0	46.5	46.6	47.5	48.9	48.2	47.0	40.7	30.7	20.7
3150	49.5	50.6	51.0	50.0	46.7	44.3	42.4	41.5	40.3	42.2	42.8	42.9	43.5	45.3	44.7	43.6	37.2	27.2	17.2
4000	45.5	46.4	46.6	45.5	42.3	40.0	38.1	37.4	36.1	37.9	38.7	38.8	39.4	41.5	40.8	39.6	33.1	23.1	13.1
5000	41.0	41.7	41.9	40.7	37.7	35.5	34.1	33.0	31.7	33.6	34.5	34.6	35.5	37.3	36.5	35.3	28.7	18.7	8.7
6300	36.5	36.9	37.0	35.7	32.9	30.8	29.6	28.5	27.2	29.1	30.0	30.1	30.9	32.8	31.8	30.7	24.0	14.0	4.0
8000	33.0	33.1	33.0	31.7	28.9	26.9	25.9	24.7	23.5	25.5	26.3	26.4	27.0	28.6	27.6	26.5	20.1	10.1	.1
10000	29.3	29.0	28.8	27.4	24.7	22.8	22.2	20.9	19.8	22.0	22.6	22.6	22.9	24.3	23.2	22.1	15.9	5.9	
12500	25.3	24.9	24.7	23.4	20.7	18.9	18.3	17.1	16.2	18.5	18.9	18.8	19.8	21.8	20.8	19.7	13.7	3.7	
16000	21.0	20.6	20.4	19.1	16.6	15.0	14.5	13.4	12.7	15.1	15.3	15.2	14.9	15.3	14.4	13.1	7.3		
20000	16.3	15.9	15.8	14.6	12.5	11.2	10.9	9.9	9.4	11.9	12.0	11.8	11.2	11.1	10.1	8.5	2.8		
25000	11.4	11.0	11.0	10.1	8.6	7.6	7.4	6.5	6.3	8.9	8.9	8.6	7.9	7.4	6.2	4.2			
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-121 AIRCRAFT
 ENG. R3350-93A
 GROUND RUNUP
 (OPERATIONS:
 (TAXI POWER, C-121
 (SINGLE ENGINE, 1200 RPM
 (GROUND RUNUP
 (METEOROLOGY:
 (TEMP = 53 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 75 %
 (DELTA M = -0.3 DB
 IDENTIFICATION:
 (OMEGA 8.2
 (TEST 74-J75-031
 (RUN 02
 (AIRCRAFT CODE 375
 (OPERATION CODE 80415
 (PROFILE VERSION A
 (17 MAY 76
 (PAGE J2

ANGLE	P=PNLT										T=ALTY											
	0	10	20	30	40	50	60	70	80	90	0	10	20	30	40	50	60	70	80	90	100	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-121 AIRCRAFT																			
ENG. R350-938																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 4.2																			
TEST 74-075-031																			
RUN 03																			
AIRCRAFT CODE 075																			
OPERATION CODE 0036																			
PROFILE VERSION A																			
17 MAY 76																			
PAGE 03																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA M = -6.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	103.7	103.3	102.7	104.1	101.6	100.3	100.5	100.9	100.1	97.5	96.4	96.1	97.6	97.0	97.8	94.0	94.7	77.8	65.4
250	101.6	101.1	100.6	102.0	99.6	98.1	98.3	98.8	97.8	95.3	93.8	93.9	95.4	94.8	95.6	91.9	92.6	75.9	63.5
315	98.4	98.9	98.4	99.8	97.4	95.9	96.1	96.6	95.6	93.1	91.6	91.6	93.2	92.6	93.4	89.7	90.4	73.3	61.4
400	97.1	96.7	96.1	97.5	95.1	93.6	93.8	94.3	93.3	90.8	89.3	89.3	91.0	90.4	91.2	87.5	88.2	73.0	59.7
500	94.8	94.4	93.8	95.3	92.9	91.4	91.5	92.0	91.0	88.5	87.0	87.0	88.7	88.1	88.9	85.2	85.9	63.1	50.3
630	92.4	92.0	91.4	92.9	90.4	88.8	89.0	89.6	88.6	86.1	84.5	84.5	86.3	85.7	86.6	82.9	83.6	65.5	53.2
800	89.9	89.5	88.9	90.3	87.7	86.0	86.4	86.9	85.9	83.4	81.8	81.8	83.7	83.0	84.0	80.1	80.8	62.6	50.3
1000	87.2	86.8	86.1	87.4	84.7	82.8	83.2	83.6	82.6	80.1	78.4	78.4	80.5	79.8	80.9	76.9	77.6	59.3	45.9
1250	84.1	83.9	83.1	84.1	81.2	79.4	79.7	80.5	79.3	76.7	75.0	75.0	77.0	76.4	77.5	73.5	74.2	51.7	37.7
1600	81.1	80.9	80.1	80.7	77.5	75.7	75.9	76.6	75.5	72.8	71.3	71.3	73.2	72.5	73.7	69.7	70.4	51.4	37.7
2000	78.1	77.8	76.9	77.5	73.9	71.6	71.8	72.4	71.2	68.6	67.0	67.0	69.1	68.4	69.6	65.6	66.3	47.7	32.9
2500	74.1	73.8	73.0	73.6	69.9	67.5	67.1	67.7	66.5	63.9	62.3	62.3	64.4	63.7	64.9	60.9	61.6	42.5	28.5
3150	69.7	69.5	68.7	69.3	65.4	62.9	61.8	62.3	61.1	58.4	56.7	56.7	58.8	58.1	59.1	55.1	55.8	42.5	28.5
4000	64.9	64.7	64.0	64.7	60.7	58.2	57.3	57.9	56.7	54.0	52.2	52.2	54.3	53.6	54.7	50.7	51.4	31.2	17.2
5000	59.9	59.7	59.0	59.7	55.7	53.2	52.3	52.9	51.7	49.0	47.2	47.2	49.3	48.6	49.7	45.7	46.4	21.7	7.2
6300	54.7	54.4	53.7	54.3	50.3	47.8	46.9	47.5	46.3	43.6	41.8	41.8	43.9	43.2	44.3	40.3	41.0	11.3	2.3
8000	50.5	50.2	49.5	50.2	46.2	43.7	42.8	43.4	42.2	39.5	37.7	37.7	39.8	39.1	40.2	36.2	36.9	2.3	2.3
10000	45.7	45.4	44.7	45.4	41.4	38.9	38.0	38.6	37.4	34.7	32.9	32.9	35.0	34.3	35.4	31.4	32.1	2.3	2.3
12500	40.5	40.3	39.6	40.3	36.3	33.8	32.9	33.5	32.3	29.6	27.8	27.8	29.9	29.2	30.3	26.3	27.0	1.6	1.6
16000	34.1	33.8	33.1	33.8	29.8	27.3	26.4	27.0	25.8	23.1	21.3	21.3	23.4	22.7	23.8	19.8	20.5	1.6	1.6
20000	27.0	26.7	26.0	26.7	22.7	20.2	19.3	19.9	18.7	16.0	14.2	14.2	16.3	15.6	16.7	12.7	13.4	1.6	1.6
25000	19.6	19.3	18.6	19.3	15.3	12.8	11.9	12.5	11.3	8.6	6.8	6.8	9.0	8.3	9.4	4.4	5.1	1.6	1.6

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1. TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNL)																	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	
DISTANCE (FEET)	3	10	20	30	40	50	60	70	80	ANGLE (DEGREES)				150	160	>170	>180
										90	100	110	120				
1. NOISE SOURCE/SUBJECT:																	
(G-121 AIRCRAFT)																	
(POP SPEED CHECK, 0-124)																	
(SINGLE ENGINE, 1700 RPM)																	
(GROUND RANGE)																	
()																	
2. IDENTIFICATION:																	
(C-121 AIRCRAFT)																	
(ALTITUDE CODE 075)																	
(OPERATION CODE 0045)																	
(PROFILE VERSION 1)																	
(17 MAY 76)																	
(PAGE 53)																	
3. TEST 74-075-034																	
4. RUN 03																	
5. METEOROLOGICAL DATA:																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	
()																	

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 4. A-WEIGHTED OVERALL SOUND LEVEL (OASL)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-121 AT CRAFT																				
ENG. R33J-93A																				
GROUND RUNUP																				
OPERATION:																				
PROP SPEED CHECK, C-121																				
SINGLE ENGINE, 1700 RPM																				
GROUND RUNUP																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 73 %																				
DELTA N = -6.0 DB																				
IDENTIFICATIONS:																				
OMEGA 8.2																				
TEST 74-075-001																				
AIRCRAFT CODE 875																				
OPERATION CODE 80-36																				
PROFILE VERSION A																				
17 MAY 76																				
PAGE F3																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180		
200	89.9	89.6	89.3	89.3	86.0	84.4	83.6	83.5	82.1	79.7	79.9	79.4	80.5	80.5	81.3	77.0	73.4	63.4	53.4	
250	87.9	87.5	86.9	87.2	83.8	82.2	81.1	81.3	79.9	77.6	77.8	77.3	78.4	78.4	78.9	75.7	71.4	61.4	51.4	
315	85.8	85.5	84.8	85.1	81.7	80.0	79.2	79.1	77.7	75.4	75.7	75.1	76.2	76.2	76.8	73.6	69.3	59.3	49.3	
400	83.7	83.3	82.7	83.0	79.5	77.8	76.9	76.8	75.5	73.2	73.5	72.3	74.0	74.1	74.7	71.5	67.2	57.2	47.2	
500	81.5	81.2	80.5	80.8	77.2	75.2	74.6	74.5	73.2	70.9	71.2	70.6	71.8	71.9	72.5	69.4	65.0	55.0	45.0	
630	79.3	78.9	78.2	78.6	74.3	73.2	72.2	72.2	70.9	68.6	68.9	68.3	69.5	69.6	70.3	67.2	62.8	52.8	42.8	
800	77.0	76.6	75.9	76.3	72.5	70.7	69.7	69.7	68.3	66.1	66.4	65.9	67.0	67.2	67.9	64.9	60.6	50.6	40.6	
1000	74.6	74.2	73.5	73.9	70.0	68.2	67.0	67.0	65.6	63.5	63.7	63.3	64.4	64.7	65.4	62.4	58.2	48.2	38.2	
1250	72.6	71.6	71.0	71.3	67.4	65.5	64.2	64.1	62.7	60.6	60.9	60.5	61.6	62.0	62.7	59.8	55.6	45.6	35.6	
1600	69.4	69.0	68.3	68.7	64.6	62.6	61.2	61.0	59.6	57.6	57.9	57.7	58.6	59.2	60.0	57.1	53.0	43.0	33.0	
2000	66.6	66.3	65.5	66.0	61.8	59.7	58.1	57.8	56.3	54.4	54.7	54.7	55.5	56.3	57.1	54.3	50.2	40.2	30.2	
2500	63.4	63.1	62.4	62.9	58.6	56.4	54.8	54.3	52.7	50.9	51.3	51.5	52.2	53.1	53.9	51.2	47.2	37.2	27.2	
3150	59.9	59.6	58.9	59.4	55.0	52.9	51.1	50.5	48.8	47.2	47.6	48.1	48.5	49.7	50.5	47.9	43.9	33.9	23.9	
4000	55.9	55.7	55.0	55.6	51.1	49.1	47.0	46.4	44.3	43.2	43.6	44.2	44.6	46.4	46.8	44.3	40.3	30.3	20.3	
5000	51.5	51.4	50.7	51.3	46.9	44.8	42.7	42.1	40.2	38.9	39.4	40.1	40.4	41.8	42.8	40.2	36.2	26.2	16.2	
6300	47.6	47.0	46.2	46.9	42.4	40.4	38.2	37.6	35.0	34.4	34.9	35.6	35.9	37.4	38.4	35.9	31.9	21.9	11.9	
8000	43.5	43.4	42.6	43.3	38.8	36.6	34.4	33.7	31.7	30.6	30.9	31.7	32.0	33.5	34.5	32.1	28.0	18.0	8.0	
10000	39.7	39.5	38.8	39.4	34.6	32.3	30.4	29.8	27.8	26.6	26.7	27.6	27.9	29.4	30.3	27.9	23.5	13.5	3.9	
12500	35.6	35.4	34.6	35.2	30.4	28.2	26.3	25.8	23.9	22.6	22.5	23.3	23.7	25.0	25.9	23.5	19.4	9.4		
16000	31.1	30.8	30.1	30.7	25.9	23.6	22.1	21.8	20.2	18.6	18.4	18.7	19.5	20.5	21.3	18.8	14.7	4.7		
20000	26.3	26.0	25.2	25.8	21.2	18.9	17.8	18.0	16.6	14.8	14.5	14.2	15.4	15.8	16.8	14.8	9.7			
25000	21.1	20.7	19.9	20.6	16.3	14.1	13.6	14.3	13.2	11.2	10.8	9.7	11.4	11.3	12.4	9.5	4.9			

> SPL DATA WERE EXTRAPOLATED FOR 1 IS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)														
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
NOISE SOURCE/SUBJECTS														
G-121 AIRCRAFT														
ENG. R335U-93A														
GROUND RUNUP														
IDENTIFICATION:														
OMEGA 8.2														
TEST 74-075-001														
RUN 33														
AIRCRAFT CODE 075														
OPERATION CODE 0035														
PROFILE VERSION A														
17 MAY 76														
PAGE 63														
METEOROLOGY:														
TEMP = 59 F														
BAR PRESS = 29.92 IN HG														
REL HUMID = 70 %														
DELTA N = -6.0 DB														
ANGLE (DEGREES)														
DISTANCE (FEET)														
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
89.9	89.6	89.0	88.5	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4	83.9	83.4	82.9
87.9	87.5	86.9	86.4	85.9	85.4	84.9	84.4	83.9	83.4	82.9	82.4	81.9	81.4	80.9
85.8	85.5	84.9	84.4	83.9	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	78.9
83.7	83.3	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7	78.2	77.7	77.2	76.7
81.5	81.2	80.6	80.1	79.6	79.1	78.6	78.1	77.6	77.1	76.6	76.1	75.6	75.1	74.6
79.3	78.9	78.4	77.9	77.4	76.9	76.4	75.9	75.4	74.9	74.4	73.9	73.4	72.9	72.4
77.0	76.6	76.1	75.6	75.1	74.6	74.1	73.6	73.1	72.6	72.1	71.6	71.1	70.6	70.1
74.6	74.2	73.7	73.2	72.7	72.2	71.7	71.2	70.7	70.2	69.7	69.2	68.7	68.2	67.7
72.0	71.6	71.1	70.6	70.1	69.6	69.1	68.6	68.1	67.6	67.1	66.6	66.1	65.6	65.1
69.4	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5	65.0	64.5	64.0	63.5	63.0	62.5
66.6	66.3	65.9	65.5	65.1	64.7	64.3	63.9	63.5	63.1	62.7	62.3	61.9	61.5	61.1
63.4	63.1	62.7	62.3	61.9	61.5	61.1	60.7	60.3	59.9	59.5	59.1	58.7	58.3	57.9
59.9	59.6	59.2	58.8	58.4	58.0	57.6	57.2	56.8	56.4	56.0	55.6	55.2	54.8	54.4
55.9	55.7	55.4	55.0	54.6	54.2	53.8	53.4	53.0	52.6	52.2	51.8	51.4	51.0	50.6
51.5	51.4	51.3	51.2	51.1	51.0	50.9	50.8	50.7	50.6	50.5	50.4	50.3	50.2	50.1
47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
43.5	43.4	43.3	43.2	43.1	43.0	42.9	42.8	42.7	42.6	42.5	42.4	42.3	42.2	42.1
39.7	39.5	39.3	39.1	38.9	38.7	38.5	38.3	38.1	37.9	37.7	37.5	37.3	37.1	36.9
35.5	35.4	35.2	35.0	34.8	34.6	34.4	34.2	34.0	33.8	33.6	33.4	33.2	33.0	32.8
31.1	30.8	30.5	30.2	29.9	29.6	29.3	29.0	28.7	28.4	28.1	27.8	27.5	27.2	26.9
26.3	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3	23.0	22.7	22.4	22.1
21.1	20.7	20.3	20.0	19.7	19.4	19.1	18.8	18.5	18.2	17.9	17.6	17.3	17.0	16.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

C-121 AIRCRAFT

ENG. R3356-93A

GROUND RUNUP

OPERATION:

PROP SPEED CHECK, C-121

SINGLE ENGINE, 1700 RPM

GROUND RUNUP

METEOROLOGY:

TEMP = 53 F

SEA PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:

OMEGA 0.2

TEST 74-375-001

RUN 33

AIRCRAFT CODE 075

OPERATION CODE 00-36

PROFILE VERSION A

17 MAY 76

PAGE JC

ANGLE IN DEGREES	NOISE LEVEL IN PNJB OR DBA										
	10	20	30	40	50	60	70	80	90	100	110
0											
10									X		F
20									X		P
30									AT		P
40									A.T.		P
50									AT		P
60									AT		P
70									A.T.		P
80									AT		P
90									AT		P
100									AT		P
110									AT		P
120									AT		P
130									AT		P
140									AT		P
150									AT		P
160									AT		P
>170									AT		P
>180									AT		P

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)														
1/3 OCTAVE BAND														
DISTANCE = 250 FEET														
NOISE SOURCE/SUBJECT:														
C-121 AIRCRAFT														
ENG. R3350-93A														
GROUND RUNUP														
OPERATION:														
MAGNETO CHECK, C-121														
SINGLE ENGINE, 2050 RPM														
GROUND RUNUP														
METEOROLOGY:														
TEMP = 59 F														
BAR PRESS = 29.92 IN HG														
REL HUMID = 70 %														
DELTA N = -5.0 DB														
IDENTIFICATION:														
OMEGA 8.2														
TEST 74-075-001														
RUN 04														
AIRCRAFT CODE 075														
OPERATION CODE 00-08														
PROFILE VERSION A														
17 MAY 76														
PAGE 04														
BAND CENTER														
FREQ (HZ)														
50	82	84	86	88	90	92	94	96	98	100	102	104	106	108
63	80	83	86	89	92	95	98	101	104	107	110	113	116	119
80	78	81	84	87	90	93	96	99	102	105	108	111	114	117
100	76	79	82	85	88	91	94	97	100	103	106	109	112	115
125	74	77	80	83	86	89	92	95	98	101	104	107	110	113
160	72	75	78	81	84	87	90	93	96	99	102	105	108	111
200	70	73	76	79	82	85	88	91	94	97	100	103	106	109
250	68	71	74	77	80	83	86	89	92	95	98	101	104	107
315	66	69	72	75	78	81	84	87	90	93	96	99	102	105
400	64	67	70	73	76	79	82	85	88	91	94	97	100	103
500	62	65	68	71	74	77	80	83	86	89	92	95	98	101
630	60	63	66	69	72	75	78	81	84	87	90	93	96	99
800	58	61	64	67	70	73	76	79	82	85	88	91	94	97
1000	56	59	62	65	68	71	74	77	80	83	86	89	92	95
1250	54	57	60	63	66	69	72	75	78	81	84	87	90	93
1600	52	55	58	61	64	67	70	73	76	79	82	85	88	91
2000	50	53	56	59	62	65	68	71	74	77	80	83	86	89
2500	48	51	54	57	60	63	66	69	72	75	78	81	84	87
3150	46	49	52	55	58	61	64	67	70	73	76	79	82	85
4000	44	47	50	53	56	59	62	65	68	71	74	77	80	83
5000	42	45	48	51	54	57	60	63	66	69	72	75	78	81
6300	40	43	46	49	52	55	58	61	64	67	70	73	76	79
8000	38	41	44	47	50	53	56	59	62	65	68	71	74	77
10000	36	39	42	45	48	51	54	57	60	63	66	69	72	75
OVERALL	102	101	100	99	96	90	86	84	82	80	78	76	74	73

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT: (OPERATIONS)																
G-121 AIRCRAFT (MAGNETO CHECK, C-121)																
ENG. R3350-93A (SINGLE ENGINE, 2650 RPM)																
GROUND RUNUP (GROUND RUNUP)																
IDENTIFICATION: (OMEGA 8.2)																
TEST 74-075-001 (RUN 04)																
METEOROLOGY: (TEMP = 59 F)																
AIRCRAFT CODE 075 (OPERATION CODE 00405)																
PROFILE VERSION A (17 MAY 76)																
PAGE 04																
DELTA N = -6.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	110.4	109.5	108.2	107.3	106.6	105.9	105.1	104.5	103.8	103.2	102.4	101.8	101.3	101.4	100.7	100.4
250	108.3	107.4	106.0	105.3	104.7	104.1	103.4	102.7	102.0	101.3	100.6	99.9	99.1	98.2	97.5	96.7
315	105.1	104.2	102.8	102.1	101.5	100.8	100.1	99.4	98.7	98.0	97.3	96.6	95.8	94.9	94.1	93.4
400	103.9	102.9	101.5	100.8	100.2	99.5	98.8	98.1	97.4	96.7	96.0	95.3	94.5	93.6	92.8	92.1
500	101.5	100.6	99.2	98.5	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9	92.2	91.4	90.6	89.9
630	99.0	98.0	96.6	95.9	95.2	94.5	93.8	93.1	92.4	91.7	91.0	90.3	89.6	88.8	88.0	87.3
800	96.5	95.5	94.1	93.4	92.7	92.0	91.3	90.6	89.9	89.2	88.5	87.8	87.1	86.3	85.5	84.8
1000	93.8	92.8	91.4	90.7	89.9	89.2	88.5	87.8	87.1	86.4	85.7	85.0	84.3	83.6	82.9	82.2
1250	91.0	89.9	88.5	87.8	87.1	86.4	85.7	85.0	84.3	83.6	82.9	82.2	81.5	80.8	80.1	79.4
1500	88.0	86.8	85.4	84.7	84.0	83.3	82.6	81.9	81.2	80.5	79.8	79.1	78.4	77.7	77.0	76.3
2000	84.0	82.7	81.3	80.6	79.9	79.2	78.5	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9	72.2
2500	81.0	79.7	78.3	77.6	76.9	76.2	75.5	74.8	74.1	73.4	72.7	72.0	71.3	70.6	69.9	69.2
3150	78.8	77.5	76.1	75.4	74.7	74.0	73.3	72.6	71.9	71.2	70.5	69.8	69.1	68.4	67.7	67.0
4000	75.3	74.0	72.6	71.9	71.2	70.5	69.8	69.1	68.4	67.7	67.0	66.3	65.6	64.9	64.2	63.5
5000	72.4	71.1	69.7	69.0	68.3	67.6	66.9	66.2	65.5	64.8	64.1	63.4	62.7	62.0	61.3	60.6
6300	69.3	68.0	66.6	65.9	65.2	64.5	63.8	63.1	62.4	61.7	61.0	60.3	59.6	58.9	58.2	57.5
8000	66.4	65.1	63.7	63.0	62.3	61.6	60.9	60.2	59.5	58.8	58.1	57.4	56.7	56.0	55.3	54.6
10000	63.1	61.8	60.4	59.7	59.0	58.3	57.6	56.9	56.2	55.5	54.8	54.1	53.4	52.7	52.0	51.3
12500	60.1	58.8	57.4	56.7	56.0	55.3	54.6	53.9	53.2	52.5	51.8	51.1	50.4	49.7	49.0	48.3
15000	57.4	56.1	54.7	54.0	53.3	52.6	51.9	51.2	50.5	49.8	49.1	48.4	47.7	47.0	46.3	45.6
20000	54.4	53.1	51.7	51.0	50.3	49.6	48.9	48.2	47.5	46.8	46.1	45.4	44.7	44.0	43.3	42.6
25000	51.1	49.8	48.4	47.7	47.0	46.3	45.6	44.9	44.2	43.5	42.8	42.1	41.4	40.7	40.0	39.3
31500	48.4	47.1	45.7	45.0	44.3	43.6	42.9	42.2	41.5	40.8	40.1	39.4	38.7	38.0	37.3	36.6
40000	45.7	44.4	43.0	42.3	41.6	40.9	40.2	39.5	38.8	38.1	37.4	36.7	36.0	35.3	34.6	33.9
50000	43.0	41.7	40.3	39.6	38.9	38.2	37.5	36.8	36.1	35.4	34.7	34.0	33.3	32.6	31.9	31.2
63000	40.3	39.0	37.6	36.9	36.2	35.5	34.8	34.1	33.4	32.7	32.0	31.3	30.6	29.9	29.2	28.5
80000	37.6	36.3	34.9	34.2	33.5	32.8	32.1	31.4	30.7	30.0	29.3	28.6	27.9	27.2	26.5	25.8
100000	35.0	33.7	32.3	31.6	30.9	30.2	29.5	28.8	28.1	27.4	26.7	26.0	25.3	24.6	23.9	23.2
125000	32.3	31.0	29.6	28.9	28.2	27.5	26.8	26.1	25.4	24.7	24.0	23.3	22.6	21.9	21.2	20.5
150000	29.6	28.3	26.9	26.2	25.5	24.8	24.1	23.4	22.7	22.0	21.3	20.6	19.9	19.2	18.5	17.8
200000	27.0	25.7	24.3	23.6	22.9	22.2	21.5	20.8	20.1	19.4	18.7	18.0	17.3	16.6	15.9	15.2
250000	24.3	23.0	21.6	20.9	20.2	19.5	18.8	18.1	17.4	16.7	16.0	15.3	14.6	13.9	13.2	12.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PN08)														
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
NOISE SOURCE/SUBJECT:														
C-121 AIRCRAFT														
ENG. R3350-93A														
GROUND RUNUP														
(OPERATIONS:														
(MAGNETO CHECK, C-121														
(SINGLE ENGINE, 2050 RPM														
(GROUND RUNUP														
(
METEOROLOGY:														
= 59 F														
BAR PRESS = 29.92 IN HG														
REL HUMID = 70 %														
DELTA M = -6.0 DB														
IDENTIFICATION:														
OMEGA 8.2														
TEST 74-075-001														
RUN 04														
AIRCRAFT CODE: 075														
OPERATION CODE 00408														
PROFILE VERSION A														
17 MAY 76														
PAGE E4														
DISTANCE														
(FEET)														
ANGLE (DEGREES)														

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OASL)														
PS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
NOISE SOURCE/SUBJECT:														
C-121 AIRCRAFT														
ENG. R3350-33A														
GROUND RUNUP														
OPERATION:														
MAGNETO CHECK, C-121														
SINGLE ENGINE, 2650 RPM														
GROUND RUNUP														
METEORLOGY:														
TEMP														
BAR PRESS 29.92 IN Hg														
REL HUMID 73%														
DELTA N = 6.0 DB														
IDENTIFICATION:														
OMEGA 5.2														
TEST 7-775-031														
RUN 04														
AIRCRAFT CODE 075														
OPERATION CODE 0048														
PROFILE VERSION A														
17 MAY 76														
PAGE 54														
DISTANCE														
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130
ANGLE (DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110	120	130
200	96.8	95.8	95.4	95.3	92.3	91.7	92.0	87.4	82.0	86.2	86.7	86.8	85.9	85.9
250	94.8	93.7	93.3	93.2	91.0	90.5	90.7	85.1	80.0	84.0	84.6	84.0	83.7	83.3
315	92.7	91.6	91.2	91.0	87.9	87.2	87.9	82.9	77.2	81.9	82.4	82.5	81.6	81.2
400	90.6	89.4	89.0	88.9	85.9	85.5	86.9	80.5	75.2	79.5	80.1	80.2	79.4	79.4
500	88.4	87.2	86.8	86.6	83.6	83.3	84.6	78.1	72.8	77.1	77.8	78.1	77.1	76.8
630	86.1	85.0	84.5	84.3	81.5	81.2	82.8	75.6	70.3	74.7	75.4	75.6	74.8	74.5
800	83.8	82.6	82.2	82.0	79.1	78.6	80.2	72.9	67.8	72.2	72.9	73.1	72.3	72.1
1030	81.4	80.2	79.8	79.6	76.4	75.9	77.5	70.2	65.1	69.6	70.3	70.6	69.8	69.5
1250	78.9	77.7	77.2	77.1	73.7	73.2	74.7	67.3	62.2	66.7	67.3	67.6	66.8	66.5
1600	76.3	75.0	74.6	74.5	71.1	70.6	72.1	64.7	59.6	64.1	64.8	65.2	64.3	64.0
2000	73.6	72.3	71.9	71.8	68.4	67.9	69.4	62.0	56.9	61.4	62.1	62.5	61.6	61.3
2500	71.5	69.2	68.8	68.6	65.2	64.7	66.2	58.8	53.7	58.2	58.9	59.3	58.4	58.1
3150	67.1	65.7	65.3	65.1	61.7	61.2	62.7	55.4	50.3	54.8	55.5	55.9	55.0	54.7
4000	63.3	61.9	61.5	61.3	57.9	57.4	58.9	51.5	46.4	50.9	51.6	52.0	51.1	50.8
5000	59.0	57.6	57.2	57.0	53.6	53.1	54.6	47.2	42.1	46.6	47.3	47.7	46.8	46.5
6300	54.6	53.2	52.8	52.6	49.2	48.7	50.2	42.8	37.7	42.2	42.9	43.3	42.4	42.1
8000	51.0	49.5	49.1	48.9	45.5	45.0	46.5	39.1	34.0	38.5	39.2	39.6	38.7	38.4
10000	47.1	45.6	45.2	45.0	41.6	41.1	42.6	35.2	30.1	34.6	35.3	35.7	34.8	34.5
12500	42.9	41.3	40.9	40.7	37.3	36.8	38.3	30.9	25.8	30.3	31.0	31.4	30.5	30.2
16000	38.2	36.7	36.3	36.1	32.7	32.2	33.7	26.3	21.2	25.7	26.4	26.8	25.9	25.6
20000	33.2	31.7	31.2	31.0	27.8	27.3	28.8	21.4	16.3	20.8	21.5	21.9	21.0	20.7
25000	27.7	26.2	25.8	25.6	22.4	21.9	23.4	16.0	10.9	15.4	16.1	16.5	15.6	15.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																															
NOISE SOURCE/SUBJECT:															IDENTIFICATION:																
(C-121 AIRCRAFT															) OMEGA 8.2																
(ENG. P3350-92A															) TEST 74-075-001																
(GROUND RUNUP															) RUN 04																
(															) AIRCRAFT CODE 075																
(															) OPERATION CODE 06-09																
(															) PROFILE VERSION A																
(															) 17 MAY 76																
(															) PAGE 64																
DISTANCE																															
(FEET)	7	13	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180												
250	96.8	95.8	95.4	95.9	92.9	92.5	93.1	93.1	93.7	95.8	97.4	97.6	98.2	98.3	98.2	98.5	98.8	98.2	97.3	93.2	87.3	86.4	86.1	85.2	84.3	82.1	81.4	81.4	74.7	68.1	73.2
250	96.8	95.8	95.4	95.9	92.9	92.5	93.1	93.1	93.7	95.8	97.4	97.6	98.2	98.3	98.2	98.5	98.8	98.2	97.3	93.2	87.3	86.4	86.1	85.2	84.3	82.1	81.4	81.4	74.7	68.1	73.2
315	92.7	91.6	91.2	91.6	88.4	88.0	88.6	88.6	89.2	91.3	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
410	92.7	91.6	91.2	91.6	88.4	88.0	88.6	88.6	89.2	91.3	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
510	88.4	87.2	86.8	87.2	83.7	83.3	83.9	83.9	84.5	86.6	88.2	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
630	86.1	85.0	84.5	84.9	81.3	80.9	81.5	81.5	82.1	84.2	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
810	83.6	82.6	82.2	82.5	78.7	78.3	78.9	78.9	79.5	81.6	83.2	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
1000	81.4	80.2	79.8	80.1	76.1	75.7	76.1	76.1	76.7	78.8	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
1250	78.9	77.7	77.2	77.6	73.4	73.1	73.3	73.3	73.9	76.0	77.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
1500	76.3	75.0	74.5	75.0	70.8	70.5	70.7	70.7	71.3	73.4	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2000	73.6	72.3	71.9	72.4	67.5	67.2	67.3	67.3	67.9	70.0	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
2500	70.9	69.2	68.8	69.4	64.5	64.2	64.3	64.3	64.9	67.0	68.6	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
3150	67.1	65.7	65.3	65.8	60.9	60.6	60.7	60.7	61.3	63.4	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
4100	63.3	61.9	61.5	62.2	57.3	56.9	57.0	57.0	57.6	59.7	61.3	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
5100	59.6	57.6	57.2	57.9	53.0	52.6	52.7	52.7	53.3	55.4	57.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
6300	55.6	53.2	52.8	53.4	48.5	48.1	48.2	48.2	48.8	50.9	52.5	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
8000	51.0	49.5	49.1	49.8	44.9	44.5	44.6	44.6	45.2	47.3	48.9	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
10000	47.1	45.6	45.2	45.9	41.0	40.6	40.7	40.7	41.3	43.4	45.0	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
12500	42.9	41.3	40.9	41.6	36.7	36.3	36.4	36.4	37.0	39.1	40.7	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
15000	38.2	36.7	36.3	36.9	32.0	31.6	31.7	31.7	32.3	34.4	36.0	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
20000	33.2	31.7	31.2	31.8	26.9	26.5	26.6	26.6	27.2	29.3	30.9	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
25000	27.7	26.2	25.8	26.4	21.5	21.1	21.2	21.2	21.8	23.9	25.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

G-121 AIRCRAFT

ENG. R3356-98A

GROUND RUNUP

OPERATION:

MAGNETO CHECK, C-121

SINGLE ENGINE, 2350 RPM

GROUND RUNUP

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-275-031

RUN 04

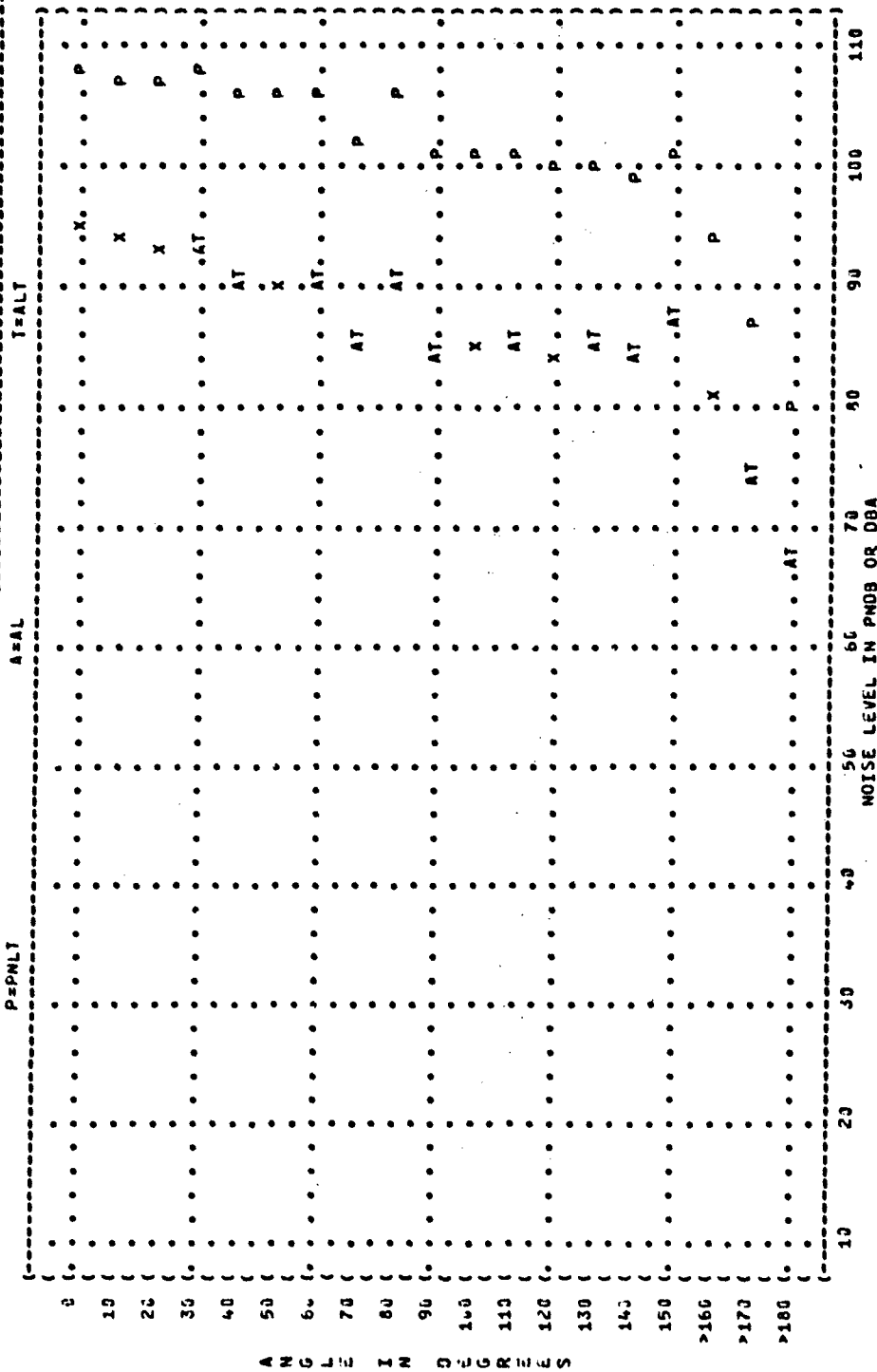
AIRCRAFT CODE 075

OPERATION CODE 00408

PROFILE VERSION A

17 MAY 76

PAGE J4



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PH03)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(C-121 AIRCRAFT)																			
(ENG. RJ350-93A)																			
(GROUND RUNUP)																			
()																			
OPERATION:																			
(MAX TAKEOFF, C-121)																			
(SINGLE ENGINE, 29.0 RPM)																			
(GROUND RUNUP)																			
()																			
METEOROLOGY:																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = -6.0 DB)																			
IDENTIFICATION:																			
(OMEGA 8.2)																			
(TEST 74-07--001)																			
AIRCRAFT CODE 075																			
OPERATION CODE 00431																			
PROFILE VERSION A																			
17 MAY 76																			
PAGE 05																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	120.3	119.9	120.3	119.9	118.9	119.6	118.9	122.2	125.4	125.4	123.8	121.4	121.2	116.8	115.5	109.0	102.2	95.5	88.3
250	118.2	117.7	118.1	118.0	116.6	117.4	116.8	119.9	123.1	123.1	123.3	121.7	119.3	118.1	113.4	106.8	100.1	93.3	85.9
315	116.0	115.5	115.9	114.4	114.3	115.1	114.6	117.7	120.3	121.1	119.5	117.2	115.0	114.6	111.2	104.7	97.9	91.1	83.4
400	113.7	113.2	113.7	112.1	111.9	112.3	112.3	115.3	118.5	118.9	117.4	115.0	113.9	112.4	109.1	102.4	95.7	88.5	80.9
500	111.4	110.9	111.4	109.7	109.4	110.4	110.0	113.0	116.2	116.6	115.1	112.5	111.6	110.2	106.8	100.1	93.4	86.3	78.3
630	108.9	109.5	109.0	107.1	106.8	107.8	107.4	110.4	113.7	114.2	112.6	110.5	109.4	107.8	104.5	97.8	90.9	83.3	75.7
800	106.2	106.0	106.5	104.5	104.1	105.2	104.7	107.7	111.1	111.7	109.9	108.2	107.0	105.4	102.3	95.3	88.2	80.5	72.9
1000	103.4	103.3	103.9	101.9	101.3	102.3	101.9	104.9	108.5	109.1	107.1	105.7	104.6	102.9	99.5	92.7	85.4	77.7	70.1
1250	100.5	100.5	101.1	99.1	98.5	99.3	98.8	101.9	105.7	106.4	104.1	102.7	101.3	100.3	96.9	90.0	82.3	74.6	67.1
1500	97.6	97.6	98.2	96.1	95.5	95.9	95.4	98.8	102.7	103.5	100.8	99.9	98.7	97.1	93.6	86.4	78.6	70.9	63.8
2000	94.4	94.4	95.0	92.9	92.2	92.3	91.8	95.5	99.6	100.4	97.5	96.4	95.2	93.5	90.3	82.3	74.6	67.3	60.1
2500	93.5	90.5	91.1	89.3	88.2	88.4	87.7	91.9	95.8	96.5	93.6	92.4	91.2	89.5	85.8	77.8	70.5	63.3	56.3
3150	86.2	86.4	86.9	84.8	83.8	84.2	83.6	87.8	91.4	92.2	89.3	88.0	86.7	84.7	80.7	73.3	66.2	58.9	50.7
4000	81.7	81.9	82.4	80.3	78.9	79.5	79.1	83.5	86.9	87.3	84.3	82.4	81.0	78.9	74.9	68.6	61.4	53.7	45.3
5000	76.9	77.1	77.6	75.5	73.9	74.6	74.4	79.0	82.1	82.4	79.1	77.2	75.4	73.3	69.3	63.7	56.3	48.2	39.0
6300	71.9	72.0	72.6	70.5	68.7	69.5	69.4	74.0	77.1	77.4	74.0	72.1	69.6	67.1	64.3	58.4	50.7	41.7	31.8
8000	68.1	68.1	68.7	66.4	64.6	65.4	65.0	69.6	73.3	73.6	70.2	68.2	65.9	64.1	59.8	54.0	45.6	35.8	24.6
10000	63.8	64.0	64.2	61.9	60.2	61.1	60.3	65.3	68.7	69.2	66.2	64.3	62.1	59.8	55.3	48.7	40.0	28.1	13.6
12500	59.2	59.4	59.3	57.3	55.3	56.2	55.4	60.6	64.1	64.5	61.8	59.4	58.3	55.5	50.6	43.2	32.8	19.3	2.5
16000	54.1	54.4	54.9	52.0	50.0	50.9	49.7	55.5	59.0	60.3	57.0	55.3	53.8	51.0	45.3	37.1	23.0	6.9	
20000	48.6	48.8	49.4	46.2	44.1	44.7	43.5	49.6	53.4	54.7	51.9	50.3	49.2	45.6	39.4	28.4	9.9		
25000	41.6	42.0	42.4	39.3	37.2	37.6	35.9	42.6	47.3	48.9	46.4	44.9	44.0	39.7	33.0	13.2			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL, (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(C-121 AIRCRAFT)																			
(ENG. R3350-93A)																			
(GROUND RUNUP)																			
OPERATIONS:																			
(MAX TAKEOFF, C-121)																			
(SINGLE ENGINE, 2900 RPM)																			
(GROUND RUNUP)																			
METEOROLOGY:																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 73 %)																			
(DELTA N = -0.0 DB)																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	121.1	120.7	121.2	118.9	119.4	121.0	120.6	123.5	120.2	125.9	126.1	122.3	121.5	119.5	115.2	109.6	102.8	96.1	89.3
250	118.9	118.5	119.0	116.6	117.2	118.8	118.4	121.3	124.3	124.8	124.0	120.8	119.4	117.4	114.1	107.4	100.7	93.9	87.1
315	116.7	116.3	116.8	114.4	114.9	116.5	116.2	119.0	122.0	122.6	121.9	118.7	117.3	115.3	111.9	105.2	98.5	91.7	84.9
400	114.5	114.1	114.6	112.1	112.5	114.2	114.0	116.7	119.7	120.4	119.7	116.5	115.1	113.1	109.7	103.0	96.3	89.5	82.7
500	112.2	111.7	112.2	109.7	109.9	111.8	111.6	114.3	117.3	118.1	117.4	114.3	112.9	110.9	107.5	101.7	95.0	88.2	81.4
630	109.6	109.3	109.8	107.1	107.3	109.2	109.1	111.8	114.8	115.7	114.9	112.0	110.7	108.6	105.1	98.3	91.5	84.7	77.9
800	106.9	106.8	107.3	104.5	104.6	106.5	106.4	109.1	112.1	113.2	112.2	109.0	107.3	105.1	102.7	95.9	89.1	82.3	75.5
1000	104.1	104.2	104.7	101.9	101.8	103.7	103.5	106.3	109.6	110.6	109.4	107.2	105.8	103.0	100.2	93.3	86.5	79.7	72.9
1250	101.3	101.4	101.9	98.1	98.0	100.0	100.5	103.2	106.6	107.9	106.4	104.0	103.3	101.0	97.0	90.6	82.9	75.2	67.5
1500	98.3	98.4	98.9	94.1	94.0	97.3	97.1	100.1	103.9	105.0	103.1	101.4	100.0	97.8	94.3	86.9	79.2	71.5	63.8
2000	95.2	95.3	95.9	92.9	92.8	93.7	93.4	96.9	100.8	101.9	99.8	97.9	96.5	94.2	90.6	82.9	75.2	67.5	60.7
2500	91.3	91.4	92.0	88.0	88.0	89.7	89.3	93.3	96.9	98.0	95.9	93.9	92.5	90.2	86.5	78.4	71.1	63.9	56.1
3150	87.0	87.2	87.8	84.0	84.0	85.5	85.3	89.2	92.6	93.7	91.6	89.5	88.1	85.4	81.3	73.8	66.8	59.4	51.3
4000	82.3	82.5	83.1	80.3	80.3	81.4	81.4	85.6	88.8	89.5	87.4	85.2	83.5	81.2	77.4	69.0	61.8	54.2	46.3
5000	77.4	77.6	78.1	75.5	75.5	76.2	76.2	80.4	83.6	84.3	82.2	80.1	78.1	75.8	72.0	64.1	56.7	48.5	40.3
6300	72.2	72.4	72.9	70.5	70.5	71.0	71.0	75.2	78.4	79.0	76.9	74.9	72.7	70.1	66.3	58.6	51.0	43.3	35.1
8000	68.1	68.3	68.9	66.4	66.4	67.0	67.0	71.2	74.4	75.0	72.9	70.7	68.5	66.2	62.3	54.7	47.1	39.4	31.2
10000	63.8	64.0	64.5	61.9	61.9	62.5	62.5	66.7	69.9	70.5	68.4	66.2	64.0	61.7	57.8	50.2	42.6	34.9	26.7
12500	59.2	59.4	59.9	57.3	57.3	57.9	57.9	62.1	65.3	65.9	63.8	61.6	59.4	57.1	53.2	45.6	38.0	30.3	22.1
15000	54.1	54.4	54.9	52.3	52.3	52.9	52.9	57.1	60.3	60.9	58.8	56.6	54.4	52.1	48.2	40.6	33.0	25.3	17.1
20000	48.6	48.8	49.4	46.8	46.8	47.4	47.4	51.6	54.8	55.4	53.3	51.1	48.9	46.6	42.7	35.1	27.5	19.8	11.6
25000	41.6	42.0	42.4	39.8	39.8	40.4	40.4	44.6	47.8	48.4	46.3	44.1	41.9	39.6	35.7	28.1	20.5	12.8	5.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT:																		
(C-121 AIRCRAFT)																		
(ENG. R3350-93A)																		
(GROUND RUNUP)																		
OPERATION:																		
(MAX TAKEOFF, C-121)																		
(SINGLE ENGINE, 2900 RPM)																		
(GROUND RUNUP)																		
METEOROLOGY:																		
(TEMP = 59 F)																		
(BAR PRESS = 29.92 IN HG)																		
(REL HUMID = 70 %)																		
(DELTA N = -6.0 DB)																		
DISTANCE (FEET)																		
ANGLE (DEGREES)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>180	
200	106.6	106.5	106.9	105.1	104.2	105.3	104.3	108.5	111.7	111.4	108.6	106.3	103.2	102.4	98.9	93.7	87.0	88.4
250	104.5	104.4	104.8	103.0	102.0	102.9	102.2	109.4	109.4	109.3	106.5	103.9	101.1	100.3	96.8	91.6	84.9	79.2
315	102.4	102.2	102.7	100.8	99.9	100.7	100.0	104.3	107.4	107.1	104.4	101.8	99.8	98.1	94.6	89.4	82.8	76.1
400	100.2	100.1	100.6	98.7	97.6	98.5	97.8	102.1	105.2	105.0	102.3	99.7	96.9	95.0	92.4	87.3	80.6	73.9
500	98.0	97.9	98.3	96.4	95.4	96.2	95.5	99.8	103.0	102.8	100.1	97.5	94.7	93.8	90.2	85.0	78.3	71.7
630	95.7	95.6	96.1	94.1	93.0	93.8	93.2	97.5	100.7	100.5	97.8	95.2	92.3	91.4	87.9	82.7	76.0	69.4
800	93.4	93.3	93.8	91.8	90.6	91.4	90.7	95.2	98.3	98.1	95.4	92.9	89.9	89.0	85.5	80.3	73.6	67.0
1000	91.0	90.9	91.4	89.3	88.1	88.8	88.2	92.7	95.9	95.7	92.9	90.5	87.5	86.6	83.0	77.8	71.2	64.5
1250	88.4	88.3	88.8	86.8	85.5	86.2	85.6	90.2	93.4	93.2	90.3	88.0	84.9	84.0	80.3	75.2	68.6	61.9
1500	85.7	85.7	86.2	84.1	82.8	83.4	82.9	87.6	90.7	90.6	87.7	85.4	82.1	81.2	77.5	72.5	65.8	59.2
2000	83.0	83.0	83.5	81.4	80.0	80.5	80.0	84.9	88.0	88.3	84.9	82.7	79.1	78.3	74.6	69.7	63.0	56.3
2500	79.9	79.9	80.5	78.3	76.8	77.4	77.0	81.9	85.1	85.4	81.6	79.5	75.9	75.2	71.4	66.6	59.9	53.2
3150	76.5	76.5	77.1	75.0	73.4	74.0	73.7	78.7	81.7	81.4	78.1	76.1	72.5	71.9	68.0	63.2	56.5	49.8
4000	72.8	72.8	73.3	71.3	69.6	70.2	70.1	75.2	78.0	77.5	74.1	72.4	68.7	68.2	64.3	59.5	52.9	46.2
5000	68.6	68.6	69.1	67.2	65.4	66.1	66.0	71.2	73.9	73.3	69.9	68.2	64.7	64.1	60.2	55.5	48.8	42.1
6300	64.2	64.2	64.7	62.8	61.0	61.6	61.7	66.8	69.5	68.8	65.4	63.8	60.4	59.8	55.8	51.1	44.4	37.8
8000	60.4	60.4	60.9	59.3	57.0	57.6	57.6	62.8	65.5	65.0	61.7	60.1	56.6	55.9	51.9	47.1	40.4	33.8
10000	56.3	56.3	56.9	54.8	52.8	53.3	53.3	58.5	61.2	61.0	57.7	56.0	52.5	51.7	47.6	42.8	36.1	29.4
12500	51.9	52.0	52.5	50.4	48.3	48.7	48.6	53.8	56.6	56.7	53.5	51.7	48.2	47.3	43.2	38.2	31.5	24.8
15000	47.1	47.2	47.7	45.5	43.4	43.8	43.5	48.6	51.0	52.0	49.1	47.2	43.9	42.7	38.6	33.3	26.7	20.0
20000	41.9	42.0	42.5	40.2	38.2	38.5	38.2	43.1	45.2	46.2	44.4	42.4	39.8	38.2	34.2	28.4	21.7	15.0
25000	36.4	36.5	36.9	34.6	32.6	33.1	32.7	37.2	40.5	40.7	39.6	37.7	36.0	33.9	30.1	23.6	16.9	10.3

TABLE 1. TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE(S) IDENTIFICATION																				
C-124 AIRCRAFT																				
ENG. #350-934																				
GROUND RUNUP																				
OPERATIONS																				
MAX TAKEOFF, C-124																				
SINGLE ENGINE, 2900 RPM																				
GROUND RUNUP																				
METEOROLOGICAL																				
TEMP																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 73 %																				
DELTA N = -5.0 DB																				
PAGE 65																				
AIRCRAFT CODE 975																				
OPERATION CODE 00431																				
PROFILE VERSION A																				
17 MAY 76																				
TEST 7-175-001																				
C-124 9.2																				
IDENTIFICATION																				
DISTANCE (FEET)	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	107.4	107.3	107.3	105.1	104.7	105.4	106.0	109.9	112.9	112.9	110.9	107.4	104.5	103.1	98.5	94.3	87.6	80.9	74.3	
250	105.3	105.2	105.7	103.0	102.6	104.2	105.8	107.7	110.7	110.8	108.8	105.4	102.4	101.0	97.4	92.2	85.5	78.8	72.2	
315	103.1	103.1	103.5	100.8	100.4	102.1	103.7	105.6	108.6	108.6	106.7	103.3	100.3	98.8	95.3	90.0	83.4	76.7	70.0	
400	101.0	100.9	101.4	98.7	98.4	99.8	101.4	103.4	106.4	106.5	104.6	101.1	98.2	96.7	93.1	87.8	81.2	74.5	67.8	
500	98.5	98.7	99.2	96.4	95.9	97.5	97.2	101.2	104.1	104.3	102.4	99.3	95.9	94.5	90.9	85.6	79.3	72.3	65.6	
630	96.5	96.4	96.9	94.1	93.5	95.2	94.8	98.9	101.8	102.0	100.1	96.7	93.6	92.1	88.5	83.3	76.6	69.9	63.3	
810	94.7	94.1	94.6	91.3	91.1	92.7	92.4	96.5	99.5	99.6	97.7	94.4	91.2	89.8	86.1	80.9	74.2	67.6	61.0	
1000	91.7	91.7	92.2	89.3	89.6	90.2	89.9	94.1	97.0	97.2	95.2	92.0	88.8	87.3	83.6	78.4	71.7	65.1	58.4	
1250	89.1	89.1	89.7	86.8	86.6	87.5	87.2	91.6	94.5	94.7	92.6	89.5	86.2	84.7	81.0	75.8	69.2	62.5	55.8	
1500	86.5	86.5	87.1	84.1	83.3	84.2	84.5	89.0	91.9	92.1	90.0	86.9	83.4	81.9	78.2	73.1	66.4	59.8	53.1	
2000	83.6	83.6	84.4	81.4	80.5	81.9	81.7	86.2	89.2	89.4	87.2	84.2	80.4	78.9	75.3	70.2	63.6	57.0	50.3	
2500	80.7	80.7	81.3	78.3	77.4	78.8	78.5	83.3	86.1	86.3	84.0	81.0	77.2	75.9	72.3	67.1	60.5	53.9	47.1	
3150	77.4	77.4	77.9	75.2	74.3	75.3	75.3	80.1	82.8	82.9	80.4	77.6	73.8	72.5	68.7	63.5	57.1	50.5	43.8	
4000	73.4	73.5	74.1	71.3	70.1	71.3	71.4	76.2	78.9	79.7	76.6	73.6	69.8	68.5	64.8	59.6	53.3	46.7	40.1	
5000	69.4	69.1	69.5	67.2	66.3	66.9	67.0	72.0	74.8	74.2	71.2	68.1	64.5	63.0	59.3	54.0	47.7	41.3	34.7	
6300	65.6	65.1	65.4	63.2	62.2	62.2	62.3	67.4	70.1	69										

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:
) OMEGA 5.2
) TEST 74-075-001
) RUN 35
) AIRCRAFT CODE 075
) OPERATION CODE 0001
) PROFILE A
) 17 MAY 76
) PAGE 05

NOISE SOURCE/SUBJECT:
) C-121 AIRCRAFT
) ENG. R3350-93A
) GROUND RUNUP

OPERATION:
) MAX TAKEOFF, C-121
) SINGLE ENGINE, 2900 RPM
) GROUND RUNUP

METEOROLOGY:
) TEMP = 59 F
) BAR PRESS = 29.92 IN HG
) REL HUMID = 70 %
) DELTA N = -6.0 DB

DISTANCE = 250 FEET

ANGLE DEGREES	P=PNLT										A=AL										T=ALT												
	30	40	50	60	70	80	90	100	110	120	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	(OPERATIONS:			METEOROLOGY:					
C-123K	(TAKEOFF	(	TEMP	(	= 59 F	(	A/C CODE: 523	(
	(2830 RPM	(60 IN HG	(REL HUMID = 70 %	(		(	OPS CODE: 103	(
	(	(	(	(		(	PROFILE VER: A	(
	(	(	(	(		(	18 DEC 75	(
	(	AIRSPEED = 140 KNOTS	(DELTA N = 0.0 DB	(		(	PAGE 11	(
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (JBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	106.4	108.2	120.1	121.9	107.8	109.4	113.1		
250	104.3	106.1	117.9	119.7	106.7	108.3	111.9		
315	102.1	103.9	115.7	117.5	105.6	107.2	110.7		
400	100.0	101.8	113.5	115.3	104.4	106.0	109.4		
500	97.8	99.6	111.2	113.0	103.2	104.8	108.2		
630	95.6	97.3	108.9	110.7	102.0	103.6	106.9		
800	93.3	95.1	106.6	108.3	100.7	102.3	105.5		
1000	91.0	92.8	104.1	105.9	99.4	101.0	104.1		
1250	88.6	90.4	101.6	103.4	98.0	99.6	102.6		
1600	86.2	88.0	99.1	100.9	96.6	98.2	101.1		
2000	83.7	85.5	96.5	98.3	95.2	96.8	99.4		
2500	81.2	83.0	93.8	95.6	93.7	95.3	97.8		
3150	78.7	80.4	91.0	92.8	92.1	93.7	96.0		
4000	76.0	77.5	88.2	89.6	90.5	91.8	93.8		
5000	73.3	74.4	85.3	86.3	88.8	89.7	91.6		
6300	70.6	71.3	82.1	82.9	87.0	87.6	89.2		
8000	67.7	68.1	78.9	79.3	85.1	85.5	86.6		
10000	64.7	64.7	75.6	75.6	83.2	83.2	84.0		
12500	61.6	61.6	72.1	72.1	81.1	81.1	81.4		
16000	58.4	58.4	68.4	68.4	78.8	78.8	78.7		
20000	54.9	54.9	64.5	64.5	76.4	76.4	75.9		
25000	51.3	51.3	60.4	60.4	73.7	73.7	72.7		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

200	(	C-123K	TAKEOFF	ST-E
250	(	2800 RPM	60 IN HG	
315	(	AIRSPEED = 140 KNOTS		ST . E
400	(	TEMP = 59 F	REL HUMID = 70 %	ST . E
500	(	DELTA N = 0.0 DB		
630	(	NO. OF RECORDS: 1		ST E.
800	(	IDENT: 6.6-523-103-181275-A		
1000	(			S.T. E
1250	(
1600	(			ST E
2000	(			ST . E
2500	(
3150	(			S.T.E.
4000	(			ST E
5000	(
6300	(			ST E
8000	(
10000	(			ST E
12500	(
16000	(			ST E
20000	(
25000	(

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE.

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:									
(OPERATIONS)									
(TAKEOFF)									
(2800 RPM 60 IN HG)									
()									
(AIRSPEED = 140 KNOTS)									
()									
METEOROLOGY:									
TEMP = 59 F									
REL HUMID = 70 %									
()									
DELTA N = 0.0 DB									
()									
PAGE M1									
IDENTIFICATION:									
OMEGA 6.6									
A/C CODE: 523									
OPS CODE: 103									
PROFILE VER: A									
16 DEC 75									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									
)									

* * * EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

200	C-123K TAKEOFF										ST-E									
250	2800 RPM 60 IN HG										ST E									
315	AIRSPEED = 140 KNOTS										ST E									
400	TEMP = 59 F REL HUMID = 70 %										ST E									
500	DELTA N = 0.0 08										S T E									
630	NO. OF RECORDS: 1										ST E									
800	IDENT: 6.6-523-103-181275-A										ST E									
1000											ST E									
1250											S T E									
1500											S T E									
1750											S T E									
2000											S T E									
2250											S T E									
2500											S T E									
2750											S T E									
3000											S T E									
3250											S T E									
3500											S T E									
3750											S T E									
4000											S T E									
4250											S T E									
4500											S T E									
4750											S T E									
5000											S T E									
5250											S T E									
5500											S T E									
5750											S T E									
6000											S T E									
6250											S T E									
6500											S T E									
6750											S T E									
7000											S T E									
7250											S T E									
7500											S T E									
7750											S T E									
8000											S T E									
8250											S T E									
8500											S T E									
8750											S T E									
9000											S T E									
9250											S T E									
9500											S T E									
9750											S T E									
10000											S T E									
10250											S T E									
10500											S T E									
10750											S T E									
11000											S T E									
11250											S T E									
11500											S T E									
11750											S T E									
12000											S T E									
12250											S T E									
12500											S T E									
12750											S T E									
13000											S T E									
13250											S T E									
13500											S T E									
13750											S T E									
14000											S T E									
14250											S T E									
14500											S T E									
14750											S T E									
15000											S T E									
15250											S T E									
15500											S T E									
15750											S T E									
16000											S T E									
16250											S T E									
16500											S T E									
16750											S T E									
17000											S T E									
17250											S T E									
17500											S T E									
17750											S T E									
18000											S T E									
18250											S T E									
18500											S T E									
18750											S T E									
19000											S T E									
19250											S T E									
19500											S T E									
19750											S T E									
20000											S T E									
20250											S T E									
20500											S T E									
20750											S T E									
21000											S T E									
21250											S T E									
21500											S T E									
21750											S T E									
22000											S T E									
22250											S T E									
22500											S T E									
22750											S T E									
23000											S T E									
23250											S T E									
23500											S T E									
23750											S T E									
24000											S T E									
24250											S T E									
24500																				

	10	20	30	40	50	60	70	80	MEAN	SD
50	(	(	(	(	(	(	(	(	79.0)
63	(	(	(	(	(	(	(	(	66.0)
80	(	(	(	(	(	(	(	(	58.0)
100	(	(	(	(	(	(	(	(	63.0)
125	(	(	(	(	(	(	(	(	80.0)
160	(	(	(	(	(	(	(	(	76.0)
200	(	(	(	(	(	(	(	(	77.0)
250	(	(	(	(	(	(	(	(	74.0)
315	(	(	(	(	(	(	(	(	72.0)
400	(	(	(	(	(	(	(	(	70.0)
500	(	(	(	(	(	(	(	(	70.0)
630	(	(	(	(	(	(	(	(	67.0)
800	(	(	(	(	(	(	(	(	66.0)
1000	(	(	(	(	(	(	(	(	65.0)
1250	(	(	(	(	(	(	(	(	64.0)
1600	(	(	(	(	(	(	(	(	63.0)
2000	(	(	(	(	(	(	(	(	62.0)
2500	(	(	(	(	(	(	(	(	59.0)
3150	(	(	(	(	(	(	(	(	57.0)
4000	(	(	(	(	(	(	(	(	52.0)
5000	(	(	(	(	(	(	(	(	47.0)
6300	(	(	(	(	(	(	(	(	42.0)
8000	(	(	(	(	(	(	(	(	32.0)
10000	(	(	(	(	(	(	(	(	22.0)

C-123K APPROACH 2400 RPM 27 IN HG

AIRSPEED = 120 KNOTS TEMP = 59 F PNLT = 90.4 PNOB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 89.2 PNOB

NO. OF RECORDS = 1 IDENT: 6.6-523-105-181275 ALT = 77.6 DBA

AL = 76.4 DBA

200	(	C-123K	APPROACH	(	ST	E)
250	(	2400 RPM	27 IN HG	(	.	ST E
315	(	AIRSPEED = 120 KNOTS		(	.	ST E.
400	(	TEMP = 59 F	REL HUMID = 70 %	(	.	ST E.
500	(	DELTA N = 0., 08		(	.	ST E.
	(	NO. OF RECORDS: 1		(	.	ST E.
	(	IDENT: 6.6-523-105-181275-A		(	.	ST E.
S 630	(	.	.	(	.	ST E.
L 800	(	.	.	(	.	ST E.
N 1000	(	.	.	(	.	ST E.
O 1250	(	.	.	(	.	ST E.
I 1600	(	.	.	(	.	ST E.
S 2000	(	.	.	(	.	ST E.
T 2500	(	.	.	(	.	ST E.
A 3000	(	.	.	(	.	ST E.
N 3500	(	.	.	(	.	ST E.
C 4000	(	.	.	(	.	ST E.
E 4500	(	.	.	(	.	ST E.
I 5000	(	.	.	(	.	ST E.
N 5500	(	.	.	(	.	ST E.
F 6000	(	.	.	(	.	ST E.
E 6500	(	.	.	(	.	ST E.
T 7000	(	.	.	(	.	ST E.
8000	(	.	.	(	.	ST E.
10000	(	.	.	(	.	ST E.
12500	(	.	.	(	.	ST E.
16000	(	.	.	(	.	ST E.
20000	(	.	.	(	.	ST E.
25000	(	.	.	(	.	ST E.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									OMEGA 5.6	
AIRCRAFT:																									A/C CODE: 523	
C-123K																									OPS CODE: 105	
27 IN HG																									REL HUMID = 70 %	
2400 RPM																									PROFILE VER: A	
AIRSPEED = 120 KNOTS																									18 DEC 75	
DELTA N = 0.0 DB																									PAGE 12	
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
200	80	75	67	77	89	37	86	83	81	79	80	77	76	75	74	73	71	70	57	67	61	56	53			
250	86	73	65	75	87	85	84	81	79	77	78	75	74	73	72	71	69	68	65	61	59	53	49			
315	84	71	63	73	85	83	82	79	77	75	76	73	72	71	70	69	67	66	62	58	56	50	45			
400	82	69	61	71	83	81	80	77	75	73	73	71	70	69	68	67	65	64	60	55	53	46	41			
500	80	67	59	69	81	78	78	75	73	71	71	68	68	67	66	65	62	61	57	53	49	42	37			
630	78	65	57	67	78	76	75	72	71	69	69	66	65	65	64	63	62	58	54	49	46	38	31			
800	76	63	55	65	76	73	72	70	69	67	67	64	63	62	61	60	60	57	55	46	42	33	25			
1000	74	61	53	62	73	70	69	67	67	65	65	62	61	60	59	58	57	54	52	47	42	37	27	17		
1250	72	59	50	59	70	67	66	64	64	63	63	60	59	58	57	55	54	49	43	38	32	20	8			
1600	70	56	47	55	66	64	63	60	61	61	61	57	56	55	54	53	51	48	45	39	33	25	12			
2000	67	52	43	51	62	60	59	56	57	58	58	55	54	53	51	50	48	44	41	33	27	18	2			
2500	63	48	39	47	58	55	54	52	53	55	56	53	51	50	48	46	44	40	36	27	20	10				
3150	59	44	34	42	53	51	49	47	49	51	52	50	48	47	45	43	40	35	30	20	12					
4000	55	39	29	37	48	45	44	41	44	46	47	45	44	44	41	39	36	30	24	12	3					
5000	50	34	24	32	43	40	39	36	38	40	42	42	40	38	34	31	24	16	7							
6300	45	30	19	27	38	35	34	31	32	35	40	38	38	36	33	29	25	16								
8000	43	27	17	25	36	33	31	28	29	32	37	35	34	32	28	23	18									
10000	40	25	15	23	33	30	29	26	26	29	33	31	29	27	22	16	9									
12500	38	23	13	20	31	28	26	23	23	25	29	26	24	21	15	8										
16000	36	21	10	18	28	25	23	20	19	21	25	21	18	14	7											
20000	34	18	8	15	26	22	20	16	15	17	20	15	12	6												
25000	31	16	5	13	23	19	16	12	11	12	14	9	4													

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

200	(	C-123K	APPROACH	ST	E
250	(	2400 RPM	27 IN HG	ST	E
315	(	AIR SPEED = 120 KNOTS		ST	E
400	(	TEMP = 59 F	REL HUMID = 70 %	ST	E
500	(	DELTA N = 0.0 DB		ST	E
630	(	NO. OF RECORDS: 1		ST	E
800	(	IDENT: 6.6-523-105-181275-A		ST	E
1000	(			ST	E
1250	(			ST	E
1600	(			ST	E
2000	(			ST	E
2500	(			ST	E
3150	(			ST	E
4000	(			ST	E
5000	(			ST	E
6300	(			ST	E
8000	(			ST	E
10000	(			ST	E
12500	(			ST	E
16000	(			ST	E
20000	(			ST	E
25000	(			ST	E

F R E Q U E N C Y	I N H Z	M E A N V A L U E O F N O R M A L I Z E D 1/3 O B S P L I N D B										M E A N S D
		30	40	50	60	70	80	90	100			
50		76.9
63		80.1
80		71.0
100		79.2
125		94.8
160		91.0
200		86.0
250		91.9
315		88.7
400		88.0
500		88.2
630		39.0
800		89.4
1000		89.5
1250		88.8
1600		88.6
2000		89.1
2500		86.2
3150		86.8
4000		83.6
5000		78.6
6300		73.3
8000		68.5
10000		64.7

C-123K TAKEOFF WITH JETS 2800 RPM 100 X RPM 60 IN HG
 AIRSPEED = 200 KNOTS TEMP = 59 F PNLT = 113.5 PND8
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 111.9 PND8
 NO. OF RECORDS = 1 IDENT: 6.6-523-108-181275 ALT = 100.6 DBA
 AL = 99.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 520	
C-123K																									OPS CODE: 108	
2800 RPM																									PROFILE VER: A	
100 % RPM																									18 DEC 75	
60 IN. HG																									PAGE H3	
AIRSPEED = 200 KNOTS																									DELTA N = 0.0 DB	
METEOROLOGY:																										
TEMP = 59 F																										
REL HUMID = 70 %																										
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	91	94	85	93	109	105	100	106	103	102	103	104	104	105	104	105	106	105	105	104	100	98	97	101		
250	89	92	83	91	107	103	98	104	101	100	101	102	102	103	102	102	103	103	103	101	97	95	94	97		
315	87	90	81	89	105	101	96	102	99	98	99	100	100	101	100	100	101	101	101	99	95	92	91	93		
400	85	88	79	87	103	99	94	100	97	96	97	98	98	98	98	98	99	99	98	96	92	89	88	89		
500	83	86	77	85	101	97	92	98	95	94	95	95	96	95	96	96	97	96	96	93	89	86	84	84		
630	81	84	75	83	99	95	90	96	93	92	92	93	94	94	93	93	94	94	93	90	86	82	79	79		
800	79	82	73	81	97	93	88	94	91	90	90	91	92	92	91	91	92	91	90	87	82	78	74	72		
1000	77	80	71	79	95	91	86	92	89	88	88	89	89	90	89	89	89	88	87	84	79	73	69	65		
1250	75	78	69	77	93	89	84	90	87	86	86	87	87	87	86	86	86	85	83	80	74	68	62	56		
1600	73	76	67	75	91	87	82	88	84	84	84	84	85	85	84	83	83	82	80	75	69	62	54	45		
2000	71	74	65	73	89	85	80	86	82	81	81	82	82	82	81	80	80	80	78	75	70	64	55	44	31	
2500	69	72	63	71	87	83	78	83	80	79	79	80	80	79	78	77	76	74	71	64	57	46	32	15		
3150	67	70	61	69	84	80	75	81	78	77	77	77	77	76	75	73	72	69	65	57	49	36	18			
4000	65	68	59	67	82	78	73	79	75	74	74	74	74	73	71	69	68	64	58	49	40	23	1			
5000	63	66	57	65	80	76	71	76	73	72	71	71	71	70	67	65	63	58	51	39	28	8				
6300	61	64	54	62	78	74	68	74	70	69	68	68	67	66	63	60	57	51	42	27	14					
8000	58	61	52	60	76	71	66	71	68	66	65	65	63	61	58	54	50	42	31	12						
10000	56	59	50	58	73	69	63	69	65	63	62	61	59	56	52	47	41	32	17							
12500	54	57	48	56	71	66	61	66	61	59	58	56	54	50	45	39	31	19	1							
16000	52	55	45	53	68	64	58	63	58	55	53	51	48	44	37	29	19	4								
20000	50	52	43	51	65	61	54	59	54	51	48	45	41	35	27	17	5									
25000	47	50	40	48	62	57	51	55	50	46	42	39	33	26	16	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

AIRCRAFT:

C-123K

(OPERATIONS:

(TAKEOFF WITH JETS

(2800 RPM 100 % RPM

(60 IN HG

(AIRSPEED = 200 KNOTS

(METEOROLOGY:

(TEMP

(REL HUMID = 70 %

(DELTA N = 0.0 08

IDENTIFICATION:

OMEGA 6.6

A/C CODE: 523

OPS CODE: 108

PROFILE VER: A

10 DEC 75

PAGE 13

SLANT DISTANCE
(FEET)

AL
(DBA)

ALT**
(DBA)

PNL
(PNDB)

PNLT**
(PNDB)

SEL
(DB)

SELT**
(DB)

EPNL**
(EPNDB)

200	115.5	117.2	129.5	131.1	115.0	116.2	119.4
250	113.3	115.0	127.2	128.8	113.8	115.0	118.1
315	111.1	112.7	124.9	126.5	112.6	113.8	116.8
400	108.3	110.4	122.5	124.1	111.3	112.5	115.4
500	106.5	108.1	120.0	121.6	109.9	111.1	113.9
630	104.0	105.7	117.4	119.0	108.5	109.7	112.3
800	101.6	103.2	114.7	116.3	107.1	108.3	110.6
1000	99.0	100.6	111.9	113.5	105.5	106.7	108.8
1250	96.4	98.0	109.0	110.6	103.9	105.1	106.9
1600	93.6	95.2	105.9	107.5	102.1	103.3	104.8
2000	90.8	92.4	102.6	104.2	100.3	101.5	102.5
2500	87.8	89.5	99.2	100.8	98.3	99.5	100.1
3150	84.8	86.4	95.6	97.2	96.3	97.5	97.5
4000	81.6	82.9	92.1	93.4	94.1	95.1	94.7
5000	78.3	79.3	88.8	89.8	91.8	92.5	92.2
6300	74.9	75.6	85.4	86.0	89.4	89.9	89.6
8000	71.4	71.8	81.8	82.1	86.9	87.2	86.7
10000	67.8	67.8	78.1	78.1	84.3	84.3	83.8
12500	64.1	64.1	74.2	74.2	81.6	81.6	80.9
16000	60.3	60.3	70.3	70.3	78.8	78.8	77.9
20000	56.4	56.4	66.1	66.1	75.9	75.9	74.8
25000	52.4	52.4	61.7	61.7	72.9	72.9	71.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	C-123X TAKEOFF WITH JETS										A+-----P									
	2800 RPM	100 % RPM	60 IN HG																	
200																				
250																				
315																				
400																				
500																				
630																				
800																				
1000																				
1250																				
1600																				
2000																				
2500																				
3150																				
4000																				
5000																				
6300																				
8000																				
10000																				
12500																				
16000																				
20000																				
25000																				

200	(	C-123K	TAKEOFF WITH JETS	60 IN HG	ST
250	(	2800 RPM	100 % RPM	.	ST E
315	(	AIRSPEED = 200 KNOTS		.	ST E
400	(	TEMP = 59 F	REL HUMID = 70 %	.	ST E
500	(	DELTA N = 6.0 DB		.	ST E
630	(	NO. OF RECORDS: 1		.	ST E
800	(	IDENT: 6.6-523-108-181275-A		.	ST E
1000	(			.	ST E
1250	(			.	ST E
1600	(			.	ST E
2000	(			.	ST E
2500	(			.	ST E
3150	(			.	ST E
4000	(			.	ST E
5000	(			.	ST E
6300	(			.	ST E
8000	(			.	ST E
10000	(			.	ST E
12500	(			.	ST E
16000	(			.	ST E
20000	(			.	ST E
25000	(			.	ST E

NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																										
AIRCRAFT:																										
(OPERATION:) METEOROLOGY:																										
(TAKEOFF WITH JETS) TEMP																										
(2800 RPM 100 % RPM) = 59 F																										
(60 IN HG) REL HUMID = 70 %																										
(AIRSPEED = 200 KNOTS) DELTA N = 0.0 DB																										
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	86	89	90	88	104	100	95	101	93	97	98	99	99	100	99	100	101	100	100	99	95	93	92	96		
250	84	87	78	86	102	98	93	99	96	95	96	97	97	98	97	97	98	93	93	96	92	90	89	92		
315	82	85	76	84	100	96	91	97	94	93	94	95	95	95	95	95	95	95	95	94	90	87	83	88		
400	80	83	74	82	98	94	89	95	92	91	92	93	93	93	93	93	94	94	93	91	87	84	83	84		
500	76	81	72	80	96	91	87	93	93	89	90	90	91	91	91	91	92	91	91	88	84	81	79	79		
630	76	79	70	78	93	89	84	90	88	87	87	88	89	89	89	88	89	89	88	85	81	77	74	74		
800	74	77	68	76	90	86	81	88	86	85	85	86	87	87	86	86	87	86	85	82	77	73	69	67		
1000	72	75	66	73	83	83	78	85	84	83	83	84	84	85	84	84	84	83	82	79	74	66	64	60		
1250	70	73	63	70	84	80	75	81	81	81	81	82	82	82	81	81	81	80	78	75	69	63	57	51		
1600	68	70	60	66	81	77	72	78	77	79	79	79	80	80	79	78	78	77	75	70	64	57	49	40		
2000	65	66	56	63	77	73	68	74	74	76	76	77	77	77	75	75	75	73	70	65	59	50	39	26		
2500	61	62	52	58	73	68	63	70	70	73	74	75	75	74	73	72	71	69	66	59	52	41	27	10		
3150	57	58	47	53	66	64	58	65	65	69	71	72	72	71	70	68	67	64	60	52	44	31	13			
4000	53	53	42	48	62	58	53	59	60	64	67	69	69	68	66	64	63	59	53	44	35	18				
5000	48	48	37	43	58	53	48	54	54	58	63	64	65	65	62	60	58	53	46	34	23					
6300	43	44	32	38	53	48	43	49	48	53	58	60	61	61	58	55	52	46	37	22						
8000	40	41	30	36	51	46	40	46	45	50	55	57	57	56	53	49	45	37	26							
10000	38	39	28	34	48	43	38	44	43	47	52	53	53	51	47	42	36	27	12							
12500	36	37	26	32	46	41	35	41	39	43	48	48	48	45	40	34	26	14								
16000	34	35	23	29	43	38	32	38	36	39	43	43	42	39	32	24	14									
20000	32	32	21	27	40	35	26	34	32	35	38	37	35	30	22	12										
25000	29	30	19	24	37	32	25	30	28	30	32	31	27	21	11											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C)

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:	OPERATION:	TAKEOFF WITH JETS	100 % RPM	60 IN HG	200 KNOTS	DELTA N = 0.0 DB	REL HUMID = 70 %	TEMP	METEOROLOGY:	A/C CODE: 523	OMEGA 6.6
C-123K	(	(	(	(	(	(	(	(	(	OPS CODE: 108	
	(	(	(	(	(	(	(	(	(	PROFILE VER: A	
	(	(	(	(	(	(	(	(	(	18 DEG 75	
	(	(	(	(	(	(	(	(	(	PAGE M3	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNOB)	PNLT** (PNOB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)				
200	110.5	112.1	124.5	126.0	110.0	111.2	114.3				
315	108.3	109.9	122.2	123.8	108.8	110.0	113.1				
400	106.1	107.7	119.9	121.5	107.6	108.7	111.7				
500	103.8	105.4	117.5	119.0	106.3	107.4	110.3				
630	101.4	103.0	114.9	116.5	104.9	106.1	108.0				
800	99.0	100.6	112.3	113.9	103.5	104.7	107.1				
	96.5	98.1	109.5	111.1	102.0	103.2	105.3				
1000	93.9	95.5	106.6	108.2	100.4	101.6	103.5				
1250	91.2	92.8	103.5	105.1	96.7	99.9	101.4				
1600	88.4	90.0	100.2	101.7	96.9	98.0	99.0				
2000	85.4	87.0	96.5	98.1	94.9	96.1	96.4				
2500	82.3	83.9	92.6	94.2	92.8	93.9	93.5				
3150	78.9	80.5	88.4	90.0	90.4	91.6	90.2				
4000	75.2	76.5	84.9	86.9	87.7	88.6	86.3				
5000	71.1	72.1	78.5	79.5	84.6	85.3	81.9				
6300	66.7	67.3	73.3	73.9	81.2	81.6	77.4				
8000	62.4	62.7	68.7	69.0	77.8	78.1	73.6				
10000	57.7	57.7	63.7	63.7	74.2	74.2	69.4				
12500	52.6	52.6	58.5	58.5	70.1	70.1	65.2				
16000	47.1	47.1	52.7	52.7	65.6	65.6	60.4				
20000	41.1	41.1	46.4	46.4	60.6	60.6	55.1				
25000	34.7	34.7	39.1	39.1	55.2	55.2	48.8				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	10	20	30	40	50	60	70	80	MEAN	SD
50	79.0	
63	X.	67.0	
80	X	.	61.0	
100	70.0	
125	81.0	
160	X.	79.0	
200	X.	78.0	
250	78.0	
315	75.0	
400	X	77.0	
500	76.0	
630	77.0	
800	76.0	
1000	76.0	
1250	76.0	
1600	74.0	
2000	74.0	
2500	71.0	
3150	69.0	
4000	66.0	
5000	62.0	
6300	55.0	
8000	47.0	
10000	38.0	

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

C-123K APPROACH WITH JETS 2400 RPM 91 % RPM 27 IN HG

AIRSPEED = 150 KNOTS PNLT = 98.1 PND9

SLANT DISTANCE = 1000 FEET REL HUMID = 59 F PNL = 97.0 PNCB

NO. OF RECORDS = 1 IDENT: 6.6-523-109-181275 ALT = 86.0 DBA

AL = 85.0 DBA

200	(	C-123K	APPROACH WITH JETS				A+		*P
250	(	2400 RPM	91 % RPM	27 IN HG	.	A+	.	.	*P
315	(	AIR SPEED = 150 KNOTS			.	A+	.	.	*P
400	(	TEMP = 59 F	REL HUMID = 70 %		.	A+	.	.	*P
500	(	DELTA N = 0.0 DB			.	A+	.	.	*P
	(	NO. OF RECORDS: 1			.	A+	.	.	*P
	(	IDENT: 6.6-523-109-181275-A			.	A+	.	.	*P
S 630	(	.	.	.	.	A+	.	.	*P
L 800	(	.	.	.	.	A+	.	.	*P
N 1000	(	.	.	.	.	A+	.	.	*P
D 1250	(	.	.	.	.	A+	.	.	*P
I 1600	(	.	.	.	.	A+	.	.	*P
T 2000	(	.	.	.	.	A+	.	.	*P
N 2500	(	.	.	.	.	A+	.	.	*P
C 3150	(	.	.	.	.	A+	.	.	*P
E 4000	(	.	.	.	.	A+	.	.	*P
I 5000	(	.	.	.	.	A+	.	.	*P
F 5300	(	.	.	.	.	A+	.	.	*P
E 8000	(	.	.	.	.	A+	.	.	*P
10000	(	.	.	.	.	A+	.	.	*P
12500	(	.	.	.	.	A+	.	.	*P
16000	(	.	.	.	.	A+	.	.	*P
20000	(	.	.	.	.	A+	.	.	*P
25000	(	.	.	.	.	A+	.	.	*P

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 523	
((OPERATION:))										OPS CODE: 109	
((APPROACH WITH JETS))										REL HUMID = 70 %	
((2400 RPM 91 % RPM))										PRGFILE VER: A	
((27 IN HG))										18 DEC 75	
((AIRSPEED = 150 KNOTS))										DELTA N = 0.0 DB	
METEOROLOGY:										PAGE 14	
TEMP											
SEL (DB)										SELT** (DB)	
PNLT** (PNDB)										EPNL** (EPNDB)	
PNL (PNDB)											
AL (DBA)											
ALT** (DBA)											
SLANT DISTANCE (FEET)											
200	100.7	101.8	113.7	114.8	101.8	102.9	105.3				
250	98.6	99.7	111.5	112.6	100.7	101.8	104.1				
315	96.5	97.5	109.3	110.4	99.5	100.6	102.9				
400	94.3	95.3	107.0	108.1	98.3	99.4	101.6				
500	92.0	93.1	104.6	105.7	97.0	98.1	100.2				
630	89.7	90.8	102.2	103.3	95.6	96.9	98.8				
800	87.4	88.5	99.7	100.7	94.4	95.5	97.2				
1000	85.0	86.0	97.0	98.1	93.0	94.1	95.6				
1250	82.5	83.6	94.3	95.3	91.5	92.6	93.8				
1600	79.9	81.0	91.3	92.4	89.9	91.0	91.9				
2000	77.3	78.3	88.3	89.4	88.3	89.4	89.8				
2500	74.5	75.6	85.0	86.1	86.5	87.6	87.6				
3150	71.6	72.7	81.6	82.7	84.6	85.7	85.2				
4000	68.6	69.5	78.5	79.3	82.7	83.5	82.8				
5000	65.5	66.1	75.2	75.8	80.5	81.2	80.3				
6300	62.2	62.7	71.7	72.2	78.3	78.7	77.7				
8000	58.8	59.1	68.1	68.4	75.9	76.1	74.8				
10000	55.3	55.3	64.3	64.3	73.4	73.4	71.8				
12500	51.7	51.7	60.1	60.1	70.7	70.7	68.6				
16000	47.9	47.9	55.9	55.9	67.9	67.9	65.4				
20000	44.0	44.0	51.3	51.3	65.0	65.0	61.8				
25000	39.9	39.9	46.0	46.0	62.0	62.0	57.5				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)																								IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																								OMEGA 6.6	
AIRCRAFT:																									
(OPERATION:) METEOROLOGY:)																									
(APPROACH WITH JETS) TEMP = 59 F)																									
(2400 RPM 91 Z RPM) REL HUMID = 70 Z)																									
(27 IN HG))																									
(AIRSPEED = 150 KNOTS) DELTA M = 0.0 DB)																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
209	88	76	70	79	50	88	87	87	84	86	86	87	86	86	86	85	85	83	82	81	78	74	71	69	
250	86	74	68	77	88	86	85	85	82	84	84	85	84	84	84	83	83	81	80	79	76	72	68	65	
315	84	72	66	75	86	84	83	83	80	82	82	83	82	82	82	81	81	79	78	76	73	69	65	62	
400	82	70	64	73	84	82	81	81	78	80	79	81	80	80	80	78	79	76	75	74	70	66	61	57	
500	80	68	62	71	82	79	79	79	76	78	77	78	78	78	78	76	77	74	73	71	68	62	57	53	
630	78	66	60	69	79	77	76	76	74	76	75	76	75	76	76	74	74	71	70	68	64	59	53	47	
800	76	64	58	67	77	74	73	74	72	74	73	74	73	73	73	71	72	69	67	65	61	55	48	41	
1000	74	62	56	64	74	71	70	71	70	72	71	72	71	71	71	69	69	66	64	61	57	50	42	33	
1250	72	60	53	61	71	68	67	68	67	70	69	70	69	69	69	66	66	63	61	57	53	45	35	24	
1600	70	57	50	57	67	65	64	64	64	68	67	67	66	66	66	64	63	60	57	53	48	38	27	13	
2000	67	53	46	53	63	61	60	60	60	65	64	65	64	64	63	61	60	56	53	47	42	31	17		
2500	63	49	42	49	59	56	55	56	56	62	62	63	61	61	60	57	56	52	48	41	35	23	6		
3150	59	45	37	44	54	52	50	51	52	58	58	60	58	58	57	54	52	47	42	34	27	12			
4000	55	40	32	39	49	46	45	45	47	53	55	57	55	55	53	50	48	42	36	26	18				
5000	50	35	27	34	44	41	40	40	41	47	50	52	52	51	50	45	43	36	28	16	7				
6300	45	31	22	29	39	36	35	35	35	42	46	48	48	47	45	40	37	29	19	4					
8000	43	28	20	27	37	34	32	32	32	39	43	45	44	43	40	34	30	20	8						
10000	40	26	18	25	34	31	30	30	29	36	39	41	39	38	34	27	21	10							
12500	38	24	16	22	32	29	27	27	26	32	35	36	34	32	27	19	11								
16000	36	22	13	20	29	26	24	24	22	28	31	31	29	25	19	9									
20000	34	19	11	17	27	23	21	20	18	24	26	25	22	17	10										
25000	31	17	8	15	24	20	17	16	14	19	20	19	14	7											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	C-123K APPROACH WITH JEYS										ST-E
	2400 RPM	91 % RPM	27 IN HG								
250	•	•	•							•ST E	
315	•	•	•							•S.T E	
400	•	•	•							•ST. E	
500	•	•	•							•ST E	
S 630	•	•	•							•ST E.	
L 800	•	•	•							•STE	
N 1000	•	•	•							•ST E	
D 1250	•	•	•							•SIE	
I 1600	•	•	•							•STE	
S 2000	•	•	•							•STE	
A 2500	•	•	•							•SX	
N 3150	•	•	•							•XT	
C 4000	•	•	•							•XT	
E 5000	•	•	•							•EX.	
F 6300	•	•	•							•XT.	
S 8000	•	•	•							•EX	
T 10000	•	•	•							•EX.	
12500	•	•	•							•E.X	
16000	•	•	•							•E X	
20000	•	•	•							•E X.	
25000	•	•	•							•E X.	
AIR TO GROUND											
E = EPNL											
T = SELT											
S = SFL											
NOISE LEVEL IN DB											
30	40	50	60	70	80	90	100	110			

	C-123K APPROACH WITH JETS										A+										*P																			
	2400 RPM 91 % RPM 27 IN HG																																							
	AIRSPEED = 150 KNOTS																																							
	TEMP = 59 F REL HUMID = 70 %																																							
	DELTA N = 0.0 D3																																							
	NO. OF RECORDS: 1																																							
	IDENT: 6.6-523-109-161275-A																																							
200	(.	(.	(.	(.
250	(.	(.	(.	(.
315	(.	(.	(.	(.
400	(.	(.	(.	(.
500	(.	(.	(.	(.
630	(.	(.	(.	(.
800	(.	(.	(.	(.
1000	(.	(.	(.	(.
1250	(.	(.	(.	(.
1600	(.	(.	(.	(.
2000	(.	(.	(.	(.
2500	(.	(.	(.	(.
3150	(.	(.	(.	(.
4000	(.	(.	(.	(.
5000	(.	(.	(.	(.
6300	(.	(.	(.	(.
8000	(.	(.	(.	(.
10000	(.	(.	(.	(.
12500	(.	(.	(.	(.
16000	(.	(.	(.	(.
20000	(.	(.	(.	(.
25000	(.	(.	(.	(.

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:	(OPERATIONS)									OMEGA 6.6	
C-123K	(APPROACH WITH JETS)									A/C CODE: 523	
	(2400 RPM)									OPS CODE: 109	
	(27 IN HG)									REL HUMID = 70 %	
	(AIRSPEED = 150 KNOTS)									PROFILE VER: A	
	(DELTA N = 0.0 DB)									18 DEC 75	
										PAGE M4	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PML (PNOB)	PMLT** (PNOB)	SEL (DB)	SELT** (DB)	EP/AL** (EPNOB)				
200	95.7	96.0	108.7	109.7	96.8	97.8	100.2				
250	93.6	94.7	106.5	107.5	95.7	96.7	99.0				
315	91.5	92.5	104.2	105.3	94.5	95.5	97.8				
400	89.2	90.3	101.9	103.0	93.3	94.3	96.5				
500	87.0	88.0	99.5	100.6	92.0	93.1	95.1				
630	84.7	85.7	97.0	98.1	90.7	91.8	93.6				
800	82.3	83.3	94.4	95.4	89.3	90.4	91.9				
1000	79.8	80.9	91.6	92.6	87.9	88.9	90.1				
1250	77.3	78.3	89.6	89.6	86.3	87.4	88.1				
1600	74.6	75.7	85.4	86.4	84.7	85.7	85.9				
2000	71.8	72.9	82.0	83.0	82.9	83.9	83.5				
2500	68.8	69.9	78.1	79.2	80.9	81.9	80.7				
3150	65.6	66.6	73.9	75.0	78.6	79.7	77.5				
4000	62.0	62.8	69.5	70.3	76.0	76.9	73.8				
5000	57.9	58.6	64.6	65.2	73.8	73.6	69.7				
6300	53.6	54.0	59.4	59.9	69.6	73.0	65.3				
8000	49.4	49.6	55.1	55.3	66.4	66.6	61.8				
10000	44.8	44.8	50.2	50.2	62.9	62.9	57.6				
12500	39.9	39.9	44.3	44.3	59.8	59.0	52.8				
16000	34.6	34.6	37.2	37.2	54.6	54.6	46.6				
20000	28.8	28.8	29.3	29.3	49.8	49.8	39.8				
25000	22.5	22.5	17.5	17.5	44.5	44.5	29.0				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

NOISE PRODUCED ON THE GROUND BY

AC-123K AIRCRAFT

OURING GROUND RUN-UP OPERATIONS

TEST 74-004-037
AIRCRAFT CODE: 023
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 0.2

POWER SETTING	COMPUTER PROGRAM	OMEGA	OMEGA 6.2	PAGE
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
56	56	56	56	56
57	57	57	57	57
58	58	58	58	58
59	59	59	59	59
60	60	60	60	60
61	61	61	61	61
62	62	62	62	62
63	63	63	63	63
64	64	64	64	64
65	65	65	65	65
66	66	66	66	66
67	67	67	67	67
68	68	68	68	68
69	69	69	69	69
70	70	70	70	70
71	71	71	71	71
72	72	72	72	72
73	73	73	73	73
74	74	74	74	74
75	75	75	75	75
76	76	76	76	76
77	77	77	77	77
78	78	78	78	78
79	79	79	79	79
80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	8	

IDLE 650 RPM, 18 IN MAP	343-348
TAXI 1000 RPM, 17 IN MAP	349-354
POWER RUNUP 2200 RPM, 22 IN MAP	355-360
MAX-NO JET 2700 RPM, 55 IN MAP	361-366
MAX-WITH JET 2700 RPM, 55 IN MAP, 100% RPM	367-372

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY, OHIO

[illegible]

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(AC-123K AIRCRAFT										(TEMP = 59 F									
(ENGS R-2800-99M, J85-17TJ										(JAR PRESS = 29.92 IN HG									
(GROUND RUNUP										(REL HUMID = 70 %									
(										( DELTA N = -3.0 DB									
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.4	84.2	85.1	85.6	86.7	86.8	86.1	86.0	86.7	87.1	87.8	87.3	87.5	88.4	86.9	86.9	85.1	84.2	81.9
250	81.0	81.8	82.8	83.3	84.5	84.5	83.8	83.7	84.3	84.7	85.4	84.9	85.2	86.2	84.7	84.5	82.8	81.8	79.5
315	78.6	79.4	80.4	81.0	82.2	82.2	81.4	81.2	81.9	82.3	83.0	82.5	82.8	83.9	82.4	82.2	80.4	79.4	77.1
400	76.1	76.9	78.0	78.5	79.7	79.8	79.0	78.8	79.4	79.8	80.5	80.1	80.4	81.5	80.1	79.7	77.9	76.9	74.6
500	73.6	74.4	75.5	75.9	77.1	77.1	76.4	76.2	76.8	77.2	78.0	77.5	77.8	78.8	77.6	77.2	75.4	74.4	72.0
630	71.6	71.8	72.7	73.3	74.4	74.4	73.6	73.6	74.2	74.5	75.1	74.7	74.9	76.0	75.1	74.4	72.8	71.8	69.4
800	68.3	69.1	69.7	70.4	71.5	71.5	70.6	70.7	71.3	71.6	72.1	71.8	71.9	73.1	72.5	71.8	70.2	68.9	66.5
1000	65.4	66.2	66.6	67.4	68.4	68.4	67.5	67.5	68.0	68.4	68.9	68.8	68.7	70.0	69.8	69.1	67.4	65.7	63.3
1250	61.9	62.8	63.1	64.4	65.0	64.9	64.0	63.9	64.5	64.8	65.3	65.4	65.2	66.6	66.9	66.2	64.4	62.1	59.7
1500	57.9	58.7	59.8	61.2	61.2	61.2	60.3	60.3	60.6	60.9	61.5	61.6	61.3	62.8	63.8	63.1	61.2	58.7	56.2
2000	53.3	54.3	56.1	57.6	57.2	57.2	57.0	56.5	56.5	57.1	57.4	58.0	57.2	58.7	59.3	59.6	57.6	54.9	52.2
2500	47.3	49.2	50.3	52.9	52.6	52.6	52.2	51.7	51.0	52.3	52.4	53.4	52.5	54.2	55.9	55.1	53.1	50.1	47.2
3150	41.6	43.4	45.5	47.5	46.9	46.9	46.5	45.8	45.7	46.4	46.6	48.0	46.7	48.6	51.9	50.0	47.6	44.4	41.3
4000	36.0	36.0	38.9	41.1	40.3	40.4	40.0	39.0	38.7	39.4	40.0	41.9	39.9	42.3	44.8	43.8	41.2	37.7	33.2
5000	21.4	23.9	30.0	32.3	31.4	31.8	31.1	29.1	28.7	30.3	31.8	34.4	31.2	34.6	37.3	37.3	33.5	29.8	21.8
6300	9.2	11.4	15.5	19.1	18.1	17.2	16.0	15.5	15.7	15.7	16.2	17.5	16.4	18.4	23.9	28.9	24.0	18.1	9.3
8000			9.9	12.9	9.2	9.2	8.3	4.0	2.7	7.4	10.2	17.5	12.8	13.5	20.8	22.7	17.5	9.8	
13000			4.3	6.6	2.3	1.2	.0				2.1	10.2	7.3	3.0	1.7	15.0	9.8	1.6	
15000											2.8	1.7			8.6	7.2	2.1		
20000															2.5				
25000																			

(TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET (NOISE SOURCE/SUBJECT: (OPERATION: (METEOROLOGY: (AIRCRAFT CODE 023 AC-123K AIRCRAFT (IDLE, 650 MPH (TEMP = 59 F (OPERATION CODE 02013 ENGS R-2800-99H, J85-171J (SINGLE RECIP ENGINE (BAR PRESS = 29.92 IN HG (PROFILE VERSION A GROUND RUNUP ((REL HUMID = 70 % (25 FEB 76 ((DELTA N = -3.0 DB (PAGE C1 (BAND CENTER FREQ (HZ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 																		
50	71	72	71	71	73	69	69	69	68	67	71	70	72	71	71	72	71	72
63	74	74	73	72	72	71	72	71	73	72	72	72	71	70	72	71	70	68
80	78	77	76	76	75	75	75	74	73	73	73	72	71	74	74	74	73	73
100	75	75	75	75	75	75	74	76	77	77	76	74	73	73	73	74	74	72
125	72	74	75	73	74	77	75	73	75	77	76	78	76	73	75	71	67	66
160	69	72	72	73	76	76	73	72	71	74	74	73	77	72	73	70	67	65
200	64	64	64	67	68	67	65	65	64	67	67	64	67	68	67	63	62	61
250	63	62	66	65	64	67	66	65	64	66	65	65	65	68	66	62	62	61
315	59	61	62	63	64	64	64	64	65	61	62	62	63	67	68	63	60	59
400	56	59	62	64	63	63	62	61	62	60	63	63	64	68	67	64	60	58
500	51	54	57	57	56	55	56	56	55	59	59	59	59	64	64	62	58	55
630	49	49	48	48	48	48	47	48	49	50	52	51	52	54	57	55	52	50
800	52	53	52	52	51	50	51	49	50	51	51	51	53	55	56	54	53	50
1000	51	50	51	52	52	50	50	47	48	51	51	49	52	52	51	49	49	47
1250	50	50	52	53	51	53	52	50	49	49	49	49	55	55	52	50	50	48
1600	52	51	51	55	54	55	56	55	54	52	51	51	59	58	54	54	52	49
2000	48	49	51	53	54	54	54	57	57	56	55	54	57	58	56	55	53	50
2500	51	49	51	52	51	51	53	52	55	57	56	54	57	55	52	53	53	50
3150	47	47	50	52	51	51	53	56	58	57	58	54	57	54	53	54	53	51
4000	46	46	49	50	49	51	51	53	56	59	54	54	54	54	52	52	51	48
5000	44	45	47	48	48	49	53	52	54	57	54	53	54	52	50	51	49	47
6300	42	43	46	47	46	47	49	50	52	54	52	51	52	51	49	51	49	47
8000	42	43	45	46	45	46	49	49	53	51	51	51	52	51	49	50	49	47
10000	37	38	40	41	40	42	44	44	46	48	46	47	47	47	45	45	44	43
OVERALL	82	83	82	82	83	82	82	82	82	82	83	82	82	81	82	81	80	79

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OASL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY: = 59 F																			
AC-123K / AIRCRAFT (IDLE, 650 RPM) TEMP																			
ENGS R-2800-99W, J85-17TJ (SINGLE RECIP ENGINE) BAR PRESS = 29.92 IN HG																			
GROUND RUNUP ((REL HUMID = 70 %) 25 FEB 76																			
DELTA N = -3.0 DB) PAGE F1																			
IDENTIFICATION:) OMEGA 8-2																			
TEST 74-004-037) RUN 01																			
AIRCRAFT CODE 023																			
OPERATION CODE 02013																			
PROFILE VERSION A																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.3	64.2	69.4	70.2	70.7	71.0	70.4	70.3	70.5	71.1	71.9	71.5	71.9	72.4	72.5	72.0	70.0	68.3	66.1
250	65.3	62.2	67.4	68.1	68.6	69.0	68.4	68.1	68.4	68.9	69.7	69.4	68.8	70.3	70.4	69.9	67.9	66.1	64.0
315	63.2	60.1	65.3	66.0	66.5	66.9	66.2	66.0	66.2	66.7	67.5	67.2	66.6	68.2	68.3	67.9	65.8	64.0	61.9
400	61.1	58.0	63.1	63.9	64.4	64.8	64.0	63.8	64.3	64.5	65.2	65.0	64.5	65.9	66.2	65.7	63.6	61.8	59.6
500	58.9	55.8	60.9	61.6	62.1	62.5	61.8	61.5	61.7	62.1	62.9	62.7	62.2	63.6	64.0	63.5	61.4	59.5	57.4
600	56.6	53.5	58.6	59.3	59.7	60.1	59.4	59.1	59.2	59.7	60.4	60.3	59.7	61.2	61.6	61.2	59.1	57.2	55.0
800	54.1	51.0	56.1	56.9	57.3	57.6	56.9	56.6	56.7	57.2	57.7	57.8	57.2	58.6	59.3	58.9	56.7	54.7	52.6
1000	51.6	48.5	53.6	54.3	54.6	54.9	54.3	54.0	54.0	54.5	54.9	55.1	54.5	56.0	56.8	56.5	54.2	52.2	50.0
1250	48.7	45.6	50.7	51.4	51.8	52.0	51.4	51.1	51.1	51.6	51.9	52.1	51.7	53.2	54.2	53.8	51.5	49.5	47.2
1600	45.6	42.5	47.6	48.3	48.7	49.0	48.3	48.0	48.0	48.5	48.8	49.3	48.6	50.2	51.4	51.1	48.8	46.6	44.3
2000	42.4	39.3	44.4	45.1	45.5	45.8	45.1	44.8	44.8	45.2	45.4	46.2	45.5	47.0	48.6	48.2	46.0	43.6	41.2
2500	38.8	35.7	40.8	41.5	41.9	42.0	41.3	41.0	41.0	41.4	41.7	42.7	41.8	43.5	45.2	44.8	42.7	40.3	37.8
3150	34.8	31.7	36.8	37.5	37.8	38.0	37.3	37.0	36.9	37.2	37.5	38.8	37.8	39.5	41.3	41.1	38.9	36.5	33.9
4000	30.6	27.5	32.6	33.3	33.6	33.8	33.1	32.8	32.8	33.1	33.4	34.5	33.3	35.2	37.1	36.9	34.8	32.4	29.8
5000	26.3	23.2	28.3	29.0	29.3	29.5	28.8	28.4	28.4	28.7	28.8	29.9	28.7	30.7	32.5	32.3	30.3	28.0	25.3
6300	21.8	18.7	23.8	24.5	24.8	25.0	24.3	24.0	24.0	24.3	24.4	25.3	24.0	26.0	27.8	27.7	25.7	23.4	20.7
8000	18.1	15.0	20.1	20.8	21.1	21.3	20.6	20.3	20.3	20.6	20.7	21.9	20.6	22.6	24.2	24.3	22.2	19.8	17.1
10000	14.4	11.3	16.4	17.0	17.4	17.6	16.9	16.6	16.6	16.9	17.0	18.3	17.0	19.0	20.5	20.7	18.5	16.0	13.4
12500	10.7	7.6	12.7	13.2	13.3	13.3	12.6	12.1	11.7	12.2	13.1	14.7	13.6	15.5	16.9	16.8	14.6	12.1	9.6
16000	7.2	4.1	9.2	9.9	9.8	9.9	9.0	8.5	8.2	8.7	9.5	11.2	10.1	12.0	12.5	12.7	10.5	8.0	5.7
20000	5.0	2.9	6.9	7.6	7.5	7.6	6.4	5.9	5.6	5.2	5.8	6.9	6.2	6.7	8.1	8.3	6.2	3.8	1.7
25000	3.5	1.6	4.7	5.4	5.3	5.4	4.2	3.7	3.4	3.1	3.6	4.8	4.1	4.6	5.9	6.1	4.2	2.5	1.0

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(AC-123K AIRCRAFT																			
(ENGS R-2800-99M, J85-171J																			
(GROUND RUNUP																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.4	85.3	82.1	86.3	87.5	86.8	87.1	87.1	87.8	87.6	87.8	88.3	88.3	89.4	86.9	86.9	85.1	84.9	81.9
250	81.6	82.9	82.8	84.0	85.3	84.5	84.8	84.8	85.4	85.2	85.4	85.9	86.0	87.2	84.7	84.5	82.8	82.5	79.5
315	78.6	81.5	80.4	81.7	83.0	82.2	82.4	82.4	83.0	82.8	83.0	83.6	83.6	84.9	82.4	82.2	80.4	80.1	77.1
400	76.1	79.0	78.0	79.2	80.5	79.8	79.8	79.8	80.5	80.3	80.5	81.1	81.2	82.5	80.1	79.7	77.9	77.6	74.6
500	73.6	75.5	75.5	76.6	77.9	77.1	77.4	77.3	78.0	77.7	78.0	78.5	78.6	79.8	77.6	77.2	75.4	75.1	72.0
630	71.6	72.9	72.7	74.0	75.2	74.4	74.6	74.7	75.3	75.0	75.1	75.7	75.8	77.1	75.1	74.4	72.8	72.4	69.4
800	68.3	70.2	69.7	71.1	72.3	71.5	71.7	71.8	72.4	72.1	72.1	72.9	72.8	74.2	72.5	71.8	70.2	69.5	66.5
1000	65.4	67.3	66.6	68.1	69.2	68.4	68.5	68.6	69.1	68.9	68.9	69.6	69.6	71.0	69.8	69.1	67.4	66.3	63.3
1250	61.9	63.8	63.1	64.9	65.8	64.9	65.0	65.0	65.6	65.3	65.3	66.4	66.0	67.6	66.9	66.2	64.4	62.8	59.7
1600	57.9	59.8	59.8	61.9	62.0	61.2	61.7	61.4	61.7	61.4	61.5	62.6	62.1	63.9	63.8	63.1	61.2	59.4	56.2
2000	53.3	55.4	56.1	58.3	58.0	57.2	58.0	57.6	57.6	57.4	57.4	59.0	58.0	59.7	60.3	59.6	57.6	55.5	52.2
2500	47.3	50.3	51.3	53.6	53.4	52.6	53.3	52.8	52.7	52.8	52.4	54.4	53.3	55.2	55.9	55.1	53.1	50.7	47.2
3150	41.6	44.5	45.5	48.2	47.7	46.9	47.5	46.9	48.8	48.9	48.6	49.1	47.5	49.5	50.9	50.0	47.6	45.1	41.3
4000	33.6	36.8	38.3	41.6	41.0	40.4	40.8	39.9	39.5	39.8	40.0	42.7	40.5	43.1	44.8	43.8	41.2	38.3	33.2
5000	21.4	24.2	25.0	27.7	27.3	26.8	27.0	26.7	26.4	26.6	26.8	28.0	26.8	28.0	28.3	27.7	25.9	23.8	21.8
6300	9.2	11.8	12.5	14.4	14.5	14.2	14.3	14.0	14.2	14.3	14.4	15.0	14.8	15.0	15.0	14.8	14.0	13.3	12.8
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 AC-121C AIRCRAFT
 ENGS 1-2000-99M, J85-171J
 GROUND RUNUP
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 73 %
 DELTA M = -3.0 DB
 IDENTIFICATION:
 OMEGA 8.2
 TEST 74-004-037
 RUN 01
 AIRCRAFT CODE 023
 OPERATION CODE W2313
 PROFILE VERSION A
 25 FEB 76
 PAGE J1

ANGLE IN DEGREES	NOISE LEVEL IN PNDB OR DBA										
	-10	0	10	20	30	40	50	60	70	80	90
9
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBS)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(AC-123K AIRCRAFT)																
(ENGS R-2800-99M, J85-177J)																
(GROUND RUNUP)																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																
()																

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT 1																			
AC-123K AIRCRAFT																			
ENGS K-2800-99M, J85-17TJ																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-084-837																			
RUN 02																			
AIRCRAFT CODE 823																			
OPERATION CODE 82015																			
PROFILE VERSION A																			
25 FEB 76																			
PAGE 02																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	92.4	93.6	93.2	92.7	93.4	93.4	92.5	91.5	91.5	91.5	91.6	91.2	93.9	93.5	92.2	93.4	92.0	86.5	85.2
250	90.3	91.5	91.1	90.6	91.3	91.3	90.3	89.3	89.3	89.3	89.4	88.0	91.7	91.3	90.0	91.3	89.8	84.2	82.9
315	88.1	89.3	88.9	88.4	89.2	89.2	88.2	87.1	87.1	87.1	87.2	85.8	89.6	89.2	87.7	89.1	87.6	81.8	80.4
400	85.8	87.1	86.7	86.1	86.9	86.9	85.9	84.8	84.8	84.9	84.9	83.4	87.4	86.9	85.4	85.8	85.3	79.3	78.0
500	83.3	84.7	84.2	83.6	84.5	84.5	83.4	82.3	82.3	82.3	82.4	80.8	84.8	84.5	83.0	84.3	82.9	76.8	75.4
630	80.7	81.9	81.4	80.9	81.7	81.8	80.6	79.7	79.7	79.7	79.8	78.3	82.3	81.7	80.5	81.8	80.5	74.2	72.8
800	77.9	78.9	78.5	78.1	78.7	78.8	77.6	76.8	76.7	76.7	76.9	75.1	79.3	78.8	78.0	79.2	78.0	71.4	69.9
1000	74.7	75.8	75.4	74.9	75.6	75.7	74.5	73.6	73.5	73.5	73.6	72.9	76.1	75.6	75.4	76.6	75.4	68.2	66.7
1250	71.3	72.4	72.0	71.5	72.2	72.2	71.0	70.0	69.9	69.9	70.1	68.4	72.6	72.2	72.5	73.4	72.6	64.7	63.1
1500	67.6	68.7	68.3	67.8	68.5	68.5	67.3	66.2	66.0	66.0	66.1	64.4	68.6	68.2	68.5	69.5	68.6	61.8	59.1
2000	63.5	64.7	64.3	63.8	64.5	64.5	63.3	62.2	62.0	62.0	62.1	60.4	64.6	64.2	64.5	65.5	64.6	57.3	54.5
2500	59.6	60.8	60.4	60.0	60.6	60.6	59.4	58.3	58.1	58.1	58.2	56.5	60.7	60.3	60.6	61.6	60.7	52.7	49.8
3150	55.9	57.1	56.7	56.2	56.9	56.9	55.7	54.6	54.4	54.4	54.5	52.8	57.0	56.6	56.9	57.9	57.0	47.4	44.5
4000	52.2	53.4	53.0	52.5	53.2	53.2	52.0	50.9	50.7	50.7	50.8	49.1	53.3	52.9	53.2	54.2	53.3	41.2	38.2
5000	48.5	49.7	49.3	48.8	49.5	49.5	48.3	47.2	47.0	47.0	47.1	45.4	49.6	49.2	49.5	50.5	49.6	38.8	35.8
6300	44.8	46.0	45.6	45.1	45.8	45.8	44.6	43.5	43.3	43.3	43.4	41.7	45.9	45.5	45.8	46.8	45.9	35.4	32.4
8000	41.1	42.3	41.9	41.4	42.1	42.1	40.9	39.8	39.6	39.6	39.7	38.0	42.2	41.8	42.1	43.1	42.2	32.0	29.0
10000	37.4	38.6	38.2	37.7	38.4	38.4	37.2	36.1	35.9	35.9	36.0	34.3	38.5	38.1	38.4	39.4	38.5	28.6	25.6
12500	33.7	34.9	34.5	34.0	34.7	34.7	33.5	32.4	32.2	32.2	32.3	30.6	34.8	34.4	34.7	35.7	34.8	25.1	22.1
15000	30.0	31.2	30.8	30.3	31.0	31.0	29.8	28.7	28.5	28.5	28.6	26.9	31.1	30.7	31.0	32.0	31.1	21.6	18.6
20000	26.3	27.5	27.1	26.6	27.3	27.3	26.1	25.0	24.8	24.8	24.9	23.2	27.4	27.0	27.3	28.3	27.4	18.1	15.1
25000	22.6	23.8	23.4	22.9	23.6	23.6	22.4	21.3	21.1	21.1	21.2	19.5	23.6	23.2	23.5	24.5	23.6	14.6	11.6
30000	18.9	20.1	19.7	19.2	19.9	19.9	18.7	17.6	17.4	17.4	17.5	15.8	19.9	19.5	19.8	20.8	19.9	9.6	6.6
35000	15.2	16.4	16.0	15.5	16.2	16.2	15.0	13.9	13.7	13.7	13.8	12.1	16.2	15.8	16.1	17.1	16.2	5.1	2.1
40000	11.5	12.7	12.3	11.8	12.5	12.5	11.3	10.2	10.0	10.0	10.1	8.4	12.2	11.8	12.1	13.1	12.2	0.6	-2.4
45000	7.8	9.0	8.6	8.1	8.8	8.8	7.6	6.5	6.3	6.3	6.4	4.7	8.9	8.5	8.8	9.8	8.9	-0.9	-3.9

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
AC-123K AIRCRAFT																		
ENGS R-2800-99M, J85-171J																		
GROUND RUNUP																		
(OPERATION:)																		
TAXI POWER, 1000 RPM																		
SINGLE RECIP ENGINE																		
(METEOROLOGY:)																		
TEMP = 59 F																		
BAR PRESS = 29.92 IN HG																		
REL HUMID = 70 %																		
DELTA N = -3.0 DB																		
AIRCRAFT CODE 023																		
OPERATION CODE 02015																		
PROFILE VERSION A																		
25 FEB 76																		
PAGE C2																		
IDENTIFICATION:																		
OMEGA 8.2																		
TEST 74-004-037																		
RUN 02																		
BAND CENTER																		
FREQ (HZ)																		
ANGLE (DEGREES)																		
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																		
50	73	74	73	69	70	64	66	64	61	64	65	67	69	67	68	69	67	68
63	76	77	75	74	76	74	73	71	69	73	74	75	75	73	75	73	68	71
80	78	78	77	76	76	75	75	73	74	74	74	74	72	71	72	75	75	76
100	83	85	83	83	83	83	83	84	84	84	84	82	77	76	81	83	81	77
125	82	85	84	83	85	86	84	80	77	79	76	82	88	85	78	82	77	71
160	80	81	81	81	81	81	79	78	76	79	81	78	79	81	78	81	75	69
200	76	75	75	74	78	70	75	73	72	71	72	72	73	75	75	76	73	68
250	71	71	74	71	71	70	72	71	71	68	68	69	67	69	74	75	71	66
315	68	69	70	69	71	67	68	67	67	67	65	65	67	69	74	77	73	64
400	65	68	69	71	69	67	66	66	62	64	64	66	67	69	73	74	74	63
500	65	66	68	68	67	65	64	61	59	59	61	64	64	68	71	72	73	59
630	63	63	61	61	61	58	58	56	56	54	56	55	57	62	65	66	68	56
800	64	64	61	61	59	57	57	55	51	53	55	55	57	62	65	66	67	56
1000	60	60	61	61	60	58	58	54	53	52	53	54	55	60	61	61	62	53
1250	61	60	62	62	62	61	61	58	57	56	56	56	57	61	61	60	61	54
1600	59	59	60	59	58	58	58	57	56	55	56	56	57	62	62	59	60	54
2000	57	58	57	58	57	56	57	59	53	59	56	56	56	59	60	58	59	54
2500	57	57	57	57	56	54	56	56	58	57	57	57	56	59	58	56	58	52
3150	54	55	55	56	55	54	55	55	53	58	58	57	56	58	55	54	56	52
4000	54	55	55	55	54	54	54	56	57	60	58	56	57	56	55	54	56	51
5000	51	53	52	53	52	52	54	54	57	58	57	55	54	55	53	52	53	49
6300	49	50	50	50	50	49	50	53	54	55	54	52	52	52	51	50	51	48
8000	48	49	49	49	49	50	50	52	53	55	53	52	52	52	51	49	50	48
10000	44	45	44	45	45	44	46	47	49	50	48	47	46	46	46	44	46	42
OVERALL	80	90	89	86	89	89	88	87	86	87	87	87	89	86	86	89	86	82

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
DISTANCE (FEET)	ANGLE (DEGREES)										IDENTIFICATION					
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	76.8	77.7	77.7	77.4	77.9	77.2	76.4	75.0	74.0	73.1	73.1	73.0	72.9	72.8	72.7	72.6
250	74.8	75.6	75.7	75.4	75.8	75.1	74.3	73.0	72.5	72.8	72.3	72.3	72.3	72.3	72.3	72.3
315	72.7	73.5	73.0	73.3	73.8	73.1	72.3	70.9	70.4	70.7	70.9	70.8	70.8	70.8	70.8	70.8
400	70.0	71.4	71.5	71.2	71.6	71.0	70.2	68.7	68.2	68.5	68.7	68.6	68.6	68.6	68.6	68.6
500	68.4	69.2	69.3	69.0	69.4	68.7	67.9	66.5	66.0	66.2	66.4	66.4	66.4	66.4	66.4	66.4
630	66.0	66.9	67.0	66.0	67.0	66.3	65.5	64.1	63.6	63.8	64.0	64.0	64.0	64.0	64.0	64.0
800	63.5	64.4	64.5	64.2	64.5	63.8	63.0	61.6	61.0	61.2	61.5	61.5	61.5	61.5	61.5	61.5
1000	60.9	61.8	61.9	61.6	61.9	61.1	60.3	58.9	58.3	58.5	58.8	58.8	58.8	58.8	58.8	58.8
1250	58.1	59.0	59.1	58.8	59.1	58.2	57.5	56.0	55.4	55.6	55.9	55.9	55.9	55.9	55.9	55.9
1500	55.2	56.0	56.1	55.8	56.1	55.2	54.5	53.0	52.4	52.6	52.9	52.9	52.9	52.9	52.9	52.9
2000	52.1	52.9	53.2	53.1	53.1	52.9	51.2	49.7	48.8	49.1	49.2	49.2	49.2	49.2	49.2	49.2
2500	49.6	50.4	50.7	50.4	50.7	50.0	48.3	46.8	45.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2
3150	47.1	47.9	48.2	47.9	48.2	47.5	45.8	44.3	43.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7
4000	44.6	45.4	45.7	45.4	45.7	45.0	43.3	41.8	40.9	41.2	41.2	41.2	41.2	41.2	41.2	41.2
5000	42.1	42.9	43.2	42.9	43.2	42.5	40.8	39.3	38.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7
6300	39.6	40.4	40.7	40.4	40.7	40.0	38.3	36.8	35.9	36.2	36.2	36.2	36.2	36.2	36.2	36.2
8000	37.1	37.9	38.2	37.9	38.2	37.5	35.8	34.3	33.4	33.7	33.7	33.7	33.7	33.7	33.7	33.7
10000	34.6	35.4	35.7	35.4	35.7	35.0	33.3	31.8	30.9	31.2	31.2	31.2	31.2	31.2	31.2	31.2
12500	32.1	32.9	33.2	32.9	33.2	32.5	30.8	29.3	28.4	28.7	28.7	28.7	28.7	28.7	28.7	28.7
15000	29.6	30.4	30.7	30.4	30.7	30.0	28.3	26.8	25.9	26.2	26.2	26.2	26.2	26.2	26.2	26.2
20000	27.1	27.9	28.2	27.9	28.2	27.5	25.8	24.3	23.4	23.7	23.7	23.7	23.7	23.7	23.7	23.7
25000	24.6	25.4	25.7	25.4	25.7	25.0	23.3	21.8	20.9	21.2	21.2	21.2	21.2	21.2	21.2	21.2
31500	22.1	22.9	23.2	22.9	23.2	22.5	20.8	19.3	18.4	18.7	18.7	18.7	18.7	18.7	18.7	18.7
40000	19.6	20.4	20.7	20.4	20.7	20.0	18.3	16.8	15.9	16.2	16.2	16.2	16.2	16.2	16.2	16.2
50000	17.1	17.9	18.2	17.9	18.2	17.5	15.8	14.3	13.4	13.7	13.7	13.7	13.7	13.7	13.7	13.7
63000	14.6	15.4	15.7	15.4	15.7	15.0	13.3	11.8	10.9	11.2	11.2	11.2	11.2	11.2	11.2	11.2
80000	12.1	12.9	13.2	12.9	13.2	12.5	10.8	9.3	8.4	8.7	8.7	8.7	8.7	8.7	8.7	8.7
100000	9.6	10.4	10.7	10.4	10.7	10.0	8.3	6.8	5.9	6.2	6.2	6.2	6.2	6.2	6.2	6.2

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PN09)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(AC-123K AIRCRAFT										) OMEGA 8.2									
(ENGS 4-2800-93W, J65-17TJ										) TEST 74-004-937									
(SINGLE RECIP ENGINE										) RUN 82									
(GROUND RUNUP										) AIRCRAFT CODE 023									
(										) OPERATION CODE 82015									
(										) PROFILE VERSION A									
(										) 25 FEB 76									
(										) PAGE 52									
DISTANCE										METEOROLOGY:									
(FEET)										) TEMP = 59 F									
(										) BAR PRESS = 29.92 IN HG									
(										) REL HUMID = 70 %									
(										) DELTA N = -3.0 DB									
(										ANGLE (DEGREES)									
(										30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180									
200	92.9	94.1	93.2	93.4	94.4	94.2	93.2	92.6	92.9	93.1	93.0	91.9	95.5	94.6	93.1	94.1	92.8	87.2	85.9
250	93.8	92.0	91.1	91.2	92.3	92.1	91.4	90.4	90.7	90.9	90.8	89.7	93.3	92.4	91.4	92.0	90.6	84.8	83.6
315	84.6	89.8	88.9	89.1	90.2	90.0	89.2	88.2	88.5	88.7	88.6	87.5	91.2	90.2	88.7	89.8	88.4	82.4	81.1
400	86.3	87.6	86.7	86.8	87.9	87.8	87.0	86.0	86.2	86.4	86.4	85.1	89.0	88.0	86.3	87.5	86.1	80.0	78.7
500	83.8	85.2	84.2	84.3	85.5	85.4	84.5	83.4	83.7	83.9	83.8	82.5	86.6	85.6	83.9	85.0	83.7	77.5	76.1
630	81.2	82.4	81.4	81.6	82.7	82.6	81.7	80.8	81.1	81.3	81.2	79.7	83.9	82.8	81.5	82.5	81.3	74.9	73.5
800	78.4	79.5	78.5	78.7	79.7	79.6	78.7	77.9	78.2	78.3	78.3	76.8	80.9	79.8	79.0	79.9	78.8	72.8	70.6
1000	75.2	76.3	75.4	75.6	76.6	76.5	75.5	74.7	74.9	75.1	75.0	73.6	77.7	76.7	76.3	77.3	76.2	68.8	67.4
1250	71.8	72.9	72.4	72.1	73.2	73.0	72.1	71.2	71.3	71.5	71.5	70.1	74.2	73.3	73.5	74.1	73.4	65.3	63.8
1600	68.1	69.3	68.3	68.8	69.6	69.2	68.4	67.3	67.5	67.5	67.6	66.3	70.4	69.6	69.5	71.0	70.4	61.7	59.8
2000	64.0	65.2	64.6	65.5	66.5	66.0	65.2	64.2	64.3	64.3	64.3	63.1	67.2	66.2	65.5	67.3	67.8	58.0	55.2
2500	59.3	60.5	60.5	61.3	62.2	61.2	60.3	59.5	58.2	58.2	58.2	57.6	61.3	60.0	59.3	63.8	63.3	53.4	49.5
3150	54.4	55.5	55.7	56.4	57.4	56.4	55.8	54.8	54.0	54.0	54.0	52.7	55.7	54.6	53.6	59.1	59.0	48.0	43.3
4000	48.0	49.7	49.7	50.6	51.4	50.4	49.7	48.3	47.7	47.7	47.7	46.5	48.4	47.4	46.8	53.7	54.0	41.7	36.8
5000	42.5	43.6	44.4	44.3	44.3	44.3	43.5	42.5	41.5	41.5	41.5	40.2	40.9	40.9	40.9	48.2	48.2	33.2	25.6
6300	35.5	36.7	38.0	37.3	37.7	37.7	36.6	35.6	34.6	34.6	34.6	33.9	33.2	33.2	33.2	42.0	41.9	21.9	12.3
8000	28.1	30.9	32.0	31.4	31.5	31.5	30.3	29.3	28.2	27.1	26.0	23.6	25.5	25.5	25.5	36.7	36.7	14.0	
10000	18.8	22.1	23.7	23.2	23.3	23.3	22.1	21.1	20.9	20.9	20.9	15.6	17.5	17.5	17.5	29.3	30.3	6.1	
12500	7.7	13.4	15.3	14.8	13.8	9.6	6.3	3.7				7.4	9.7	14.9	22.2	24.7	25.8		
16000			7.0	6.4	5.2	1.6							1.8	5.7	13.7	14.6	16.4		
20000															5.1	4.4	7.1		
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 AC-123K AIRCRAFT
 ENGS R-2800-99W, J05-17TJ
 GROUND RUNUP
 OPERATIONS:
 TAXI POWER, 1000 RPM
 SINGLE RECIP ENGINE
 METEOROLOGY:
 TEMP = 53 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 73 %
 DELTA N = -3.0 DB
 IDENTIFICATION:
 OMEGA 8.2
 TEST 76-004-037
 RUN 02
 AIRCRAFT CODE 023
 OPERATION CODE 02013
 PROFILE VERSION A
 25 FEB 76
 PAGE J2

ANGLE IN DEGREES	P=PNLT										A=AL										I=ALT										NOISE LEVEL IN PN08 OR DBA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	0	10	20	30	40	50	60	70	80	90	0	10	20	30	40	50	60	70	80	90	100	0	10	20	30	40	50	60	70	80	90	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
0

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS:									
(AC-123K AIRCRAFT										) OMEGA 8.2									
(ENGS R-2800-93M, J45-17TJ										) TEST 74-064-037									
(GROUND RUNUP										) RUN 02									
((OPERATION: TAXI POWER, 1000 RPM										) AIRCRAFT CODE 023									
((SINGLE RECIP ENGINE										) OPERATION CODE 02315									
( ( )										) PROFILE VERSION A									
( ( )										) 25 FEB 76									
( ( )										) PAGE 02									
DISTANCE (FEET)										ANGLE (DEGREES)									
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.3	73.2	77.7	78.1	73.9	77.9	77.5	76.2	76.1	76.2	76.5	75.6	73.6	78.7	79.4	80.4	79.5	71.2	63.9
250	75.3	70.1	75.7	76.3	76.8	75.9	75.4	74.1	74.0	74.1	74.4	73.9	70.6	76.6	77.3	78.4	77.5	69.1	66.8
315	73.2	70.1	73.8	74.0	74.8	73.9	73.4	72.6	71.9	72.3	72.3	71.5	74.5	74.5	75.3	76.3	75.4	67.0	64.7
400	71.1	72.0	71.5	71.8	72.6	71.8	71.3	69.9	69.7	69.3	69.1	69.3	72.4	72.4	73.2	74.2	73.3	64.8	62.5
500	68.9	67.7	69.3	69.6	70.4	69.5	69.0	67.6	67.4	67.5	67.8	67.1	70.2	70.2	71.3	72.1	71.2	62.6	60.3
630	66.5	67.4	67.0	67.3	68.0	67.1	66.3	65.3	65.0	65.1	65.4	64.7	67.7	67.8	68.8	69.6	69.0	60.3	58.0
800	64.0	64.9	64.5	64.8	65.6	64.8	64.1	62.8	62.5	62.5	62.8	62.2	65.1	65.3	66.4	67.5	66.7	57.9	55.6
1000	61.4	62.3	61.9	62.3	62.9	61.9	61.4	61.1	59.8	59.8	61.1	59.5	62.4	62.7	64.1	65.1	64.4	55.4	52.9
1250	58.6	59.5	59.1	59.6	60.1	59.0	58.3	57.2	56.8	56.3	57.1	56.6	59.5	59.9	61.5	62.5	61.9	52.6	50.1
1600	55.7	56.5	56.2	56.7	57.2	55.9	55.5	54.1	53.0	53.6	54.0	53.6	56.4	57.0	58.9	59.7	59.4	49.7	47.0
2000	52.6	53.4	53.2	53.7	54.1	52.6	52.3	50.9	50.3	50.2	50.6	50.5	53.1	54.0	56.1	56.9	56.8	46.7	43.8
2500	49.1	50.0	49.8	50.3	50.6	49.0	48.8	47.2	46.2	46.4	46.9	46.3	49.3	50.5	52.9	53.6	53.8	43.3	40.3
3150	45.5	46.2	46.0	46.5	46.7	44.9	44.7	43.2	42.4	42.2	42.7	43.1	45.2	46.8	49.3	49.9	50.3	39.5	36.4
4000	41.4	42.1	41.8	42.2	42.2	40.4	40.1	38.5	37.0	37.1	37.9	38.5	40.3	42.5	45.1	45.7	46.3	35.3	32.1
5000	37.1	37.7	37.5	37.7	37.6	35.8	35.5	33.6	32.7	32.3	33.1	33.9	35.5	38.0	40.6	41.1	41.9	30.9	27.7
6300	32.6	33.1	33.0	33.1	32.9	31.0	30.7	28.9	27.7	27.3	28.1	29.1	30.5	33.2	35.8	36.4	37.3	26.1	23.1
8000	28.8	29.5	29.4	29.4	29.2	27.4	26.9	25.1	23.7	23.6	24.4	25.6	26.9	29.4	32.1	32.9	33.6	22.3	19.3
10000	24.8	25.6	25.7	25.5	25.3	23.9	23.5	21.2	19.8	19.9	20.7	22.0	23.2	25.4	28.2	29.0	29.6	18.3	15.5
12500	20.8	21.7	21.8	21.6	21.5	20.2	19.3	17.6	16.2	16.6	17.3	18.3	19.8	21.5	24.1	25.1	25.5	14.4	11.7
16000	16.7	17.7	17.8	17.6	17.7	16.5	15.8	14.0	12.7	13.2	13.8	14.6	16.4	17.4	19.7	20.8	21.0	10.3	8.0
20000	12.6	13.7	13.7	13.5	13.7	13.1	11.9	10.4	9.3	9.9	10.3	10.8	12.9	13.3	15.0	16.3	16.0	6.1	4.3
25000	9.7	9.9	9.7	9.4	9.8	9.5	9.2	6.8	5.8	6.5	6.8	7.0	9.4	9.1	10.1	11.6	11.7	2.1	.8

TABLE 1. PERCEIVED NOISE LEVEL (PNQB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(OPERATION:																			
(POWER RUNUP, 2200 KPM																			
(SINGLE RECIP ENGINE																			
(AC-123K AIRCRAFT																			
(ENGS N-2800-93M, J85-177J																			
(GROUND RUNUP																			
IDENTIFICATIONS:																			
) OMEGA 8.2																			
) TEST 74-064-037																			
) RUN 03																			
) AIRCRAFT CODE J23																			
) OPERATION CODE 02308																			
) PROFILE VERSION A																			
) 25 FEB 76																			
) PAGE 03																			
DISTANCE																			
(FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
230	107.8	103.1	109.0	111.9	109.5	108.7	110.2	108.8	109.3	109.0	109.5	109.6	109.8	108.7	107.1	106.5	100.0	89.7	79.2
250	105.7	102.0	107.4	109.7	107.3	106.5	108.0	106.6	107.1	106.8	107.4	107.7	108.6	107.9	106.9	104.3	97.8	87.5	77.0
315	103.5	100.8	105.2	107.6	105.1	104.3	105.8	104.4	104.8	104.5	105.2	105.3	106.4	105.4	104.0	102.2	95.6	85.2	74.7
400	101.2	100.0	103.0	105.4	102.9	102.1	103.6	102.4	102.4	102.1	102.9	103.1	103.3	102.2	100.5	99.9	93.3	82.9	72.4
500	98.8	93.1	100.7	103.1	100.6	99.8	101.2	99.6	99.9	99.0	100.6	100.8	101.0	99.9	98.2	97.7	91.0	80.5	70.1
630	96.2	90.5	98.3	100.7	98.2	97.2	98.6	97.1	97.3	97.0	98.1	98.2	99.5	97.5	95.8	95.3	88.5	78.1	67.6
800	93.6	87.9	95.8	98.3	95.7	94.5	96.0	94.4	94.7	94.1	95.5	95.8	95.0	93.4	92.8	86.0	75.6	65.0	
1000	91.0	85.3	93.2	95.7	93.1	91.6	93.3	91.6	92.3	91.1	92.0	92.7	92.9	92.4	90.7	90.2	83.4	72.9	62.2
1250	87.8	82.1	90.0	92.5	90.0	88.4	90.1	88.5	89.1	87.8	88.7	89.6	89.9	89.7	87.9	87.5	80.6	70.1	59.4
1500	84.6	78.9	86.8	89.3	86.8	85.2	86.9	85.3	86.1	84.8	85.7	86.6	86.9	86.7	84.9	84.5	77.7	67.2	56.7
2000	81.6	75.9	83.8	86.3	83.8	82.2	84.3	82.7	83.5	82.2	83.1	84.0	84.3	84.1	82.3	81.9	75.1	64.6	54.1
2500	77.8	72.1	80.0	82.5	80.0	78.4	80.5	78.9	79.7	78.4	79.3	80.2	80.5	80.3	78.5	78.1	71.3	60.8	50.3
3150	73.7	68.0	75.8	78.3	75.8	74.2	76.3	74.7	75.5	74.2	75.1	76.0	76.3	76.1	74.3	73.9	67.1	56.6	46.1
4000	69.2	63.5	71.4	73.9	71.4	69.8	71.9	70.3	71.1	69.8	70.7	71.6	71.9	71.7	70.0	69.6	62.8	52.3	41.8
5000	64.2	58.5	66.4	68.9	66.4	64.8	66.9	65.3	66.1	64.8	65.7	66.6	66.9	66.7	65.0	64.6	57.8	47.3	36.8
6300	59.0	53.3	61.2	63.7	61.2	59.6	61.7	60.1	60.9	59.6	60.5	61.4	61.7	61.5	60.0	59.6	52.8	42.3	31.8
8000	54.8	49.1	57.0	59.5	56.9	55.1	56.6	55.0	55.8	54.5	55.4	56.2	57.6	56.0	54.9	54.9	47.0	33.7	14.6
10000	50.4	45.7	53.9	56.4	54.2	52.0	53.8	52.1	52.9	51.6	52.5	53.8	53.2	51.5	50.4	50.4	41.9	27.6	6.8
12500	45.1	40.4	48.6	51.1	48.9	46.7	48.5	46.4	47.1	45.9	46.8	48.2	46.9	46.7	45.1	45.1	35.8	20.0	
15000	39.3	34.6	42.8	45.3	43.1	40.9	42.7	40.6	41.3	39.9	40.8	42.4	40.9	40.7	39.0	39.0	29.4	8.4	
20000	32.1	27.4	35.6	38.1	35.9	33.7	35.5	33.4	34.1	32.7	33.6	35.0	33.8	33.6	32.0	32.0	23.1		
25000	20.4	15.7	23.9	26.4	24.2	22.0	23.8	21.7	22.4	21.0	21.9	23.4	22.3	22.1	20.5	20.5	11.6		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEORLOGY:) AIRCRAFT CODE 023																			
AC-123K AIRCRAFT (POWER RUNUP, 2200 RPM) TEMP = 59 F) OPERATION CODE 02009																			
ENGS R-2000-35W, J65-171J (SINGLE RECIP ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP ((REL HUMID = 70 %) 25 FEB 76																			
((DELTA H = -3.0 DB) PAGE C3																			
BAND CENTER																			
ANGLE (DEGREES)																			
FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	90	93	88	94	93	90	91	90	93	94	93	90	94	96	92	90	90	80	70
63	79	76	76	76	76	76	76	76	76	76	76	76	77	79	76	76	73	63	53
80	85	84	83	82	79	73	78	78	77	78	80	80	78	80	81	82	77	67	57
100	89	92	93	94	88	89	93	91	87	90	95	94	86	93	90	90	79	69	59
125	90	92	93	93	93	93	97	94	91	94	96	100	99	90	91	88	80	70	60
150	92	91	88	92	90	88	94	90	87	91	94	92	91	89	86	84	81	71	61
200	91	92	91	93	87	85	92	89	87	86	93	90	91	90	89	83	80	70	60
250	89	86	88	88	85	82	86	83	81	79	83	81	82	85	84	79	77	67	57
315	80	87	91	93	91	85	89	85	83	81	85	83	85	87	87	86	79	69	59
400	86	85	91	95	91	87	89	84	87	83	87	85	90	89	88	88	81	71	61
500	85	86	90	93	91	87	90	85	89	83	89	87	89	90	87	86	79	69	59
630	81	81	84	86	85	81	85	80	81	80	88	84	84	86	84	84	77	67	57
800	82	85	84	85	84	80	83	82	81	80	84	83	86	85	86	85	77	67	57
1000	81	82	81	82	80	77	80	78	80	78	82	81	81	82	82	82	74	64	54
1250	81	80	81	81	80	78	80	79	82	79	83	82	82	82	81	82	73	63	53
1600	79	79	80	80	79	78	79	79	80	81	80	79	81	79	79	79	71	61	51
2000	79	79	80	81	80	80	81	82	82	80	79	78	80	79	77	77	71	61	51
2500	76	76	78	78	78	77	79	80	80	79	78	77	77	77	76	74	69	59	49
3150	75	75	77	77	76	75	78	78	80	81	78	74	75	73	73	71	66	56	46
4000	74	74	77	76	76	76	79	79	79	79	78	75	75	74	73	71	66	56	46
5000	72	72	73	74	74	74	77	76	78	78	74	72	72	71	70	68	64	54	44
6300	70	71																	

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
AC-123K AIRCRAFT																
ENGINE R-2800-99W, J85-17TJ																
GROUND RUNUP																
OPERATIONS:																
POWER RUNUP, 2200 RPM																
SINGLE RECIP ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 73 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-037																
RUN 03																
AIRCRAFT CODE 023																
OPERATION CODE 02008																
PROFILE VERSION A																
25 FEB 76																
PAGE F3																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	94.1	94.3	96.2	98.3	96.2	93.7	96.2	94.2	95.2	93.7	96.0	94.7	95.9	95.7	94.5	94.1
250	92.0	92.2	94.1	96.2	94.1	91.6	94.1	92.0	93.0	91.5	93.9	92.6	93.8	93.6	92.4	92.0
315	89.9	90.1	92.0	94.1	92.0	89.4	91.9	89.8	90.9	89.3	91.8	90.5	91.7	91.5	90.3	89.9
400	87.8	88.0	89.8	91.9	89.8	87.3	89.8	87.6	88.6	87.0	89.7	88.4	89.6	89.4	88.2	87.8
500	85.6	85.7	87.7	89.8	87.7	85.1	87.5	85.3	86.4	84.7	87.4	86.2	87.4	87.2	86.0	85.7
530	83.3	83.5	85.4	87.7	85.6	82.7	85.2	82.9	84.0	82.2	85.2	83.9	85.2	85.0	83.8	83.5
800	80.9	81.1	83.2	85.5	83.3	80.4	82.9	80.5	81.7	79.7	82.9	81.5	82.9	82.8	81.5	81.2
1000	78.5	78.7	80.8	83.2	81.0	78.3	80.5	77.9	79.2	77.1	80.5	79.1	80.5	80.4	79.2	79.0
1250	75.9	76.2	78.4	80.8	78.6	75.4	77.3	75.3	76.7	74.4	78.0	76.6	78.0	78.0	76.6	76.1
1600	73.2	73.5	75.8	78.4	76.0	72.8	74.5	72.5	74.1	71.6	75.5	73.9	75.5	75.5	74.3	74.1
2000	70.5	70.8	73.2	75.8	73.5	70.1	72.6	70.7	72.4	69.7	73.9	71.2	72.9	73.0	71.7	71.5
2500	67.3	67.8	70.1	72.7	70.4	67.0	69.6	66.5	68.4	65.5	70.0	68.3	69.9	70.1	68.6	68.0
3150	63.9	64.5	66.6	69.1	67.0	63.5	66.1	63.1	65.0	62.1	66.7	65.0	66.5	66.8	65.5	65.3
4000	60.2	60.9	62.8	65.1	63.2	59.7	62.3	59.3	61.2	58.3	63.1	61.3	62.9	63.2	61.9	61.8
5000	56.0	56.8	58.5	60.7	58.9	55.4	58.1	55.1	57.0	54.1	59.0	57.2	58.8	59.1	57.9	57.7
6300	51.6	52.5	54.0	56.2	54.4	51.0	53.6	50.6	52.6	49.6	54.6	52.9	54.4	54.7	53.6	53.4
8000	47.8	48.6	50.4	52.7	50.8	47.3	50.0	46.7	48.8	45.6	50.9	49.1	50.6	51.0	49.8	49.5
10000	43.6	44.4	46.5	48.9	47.0	43.4	46.1	42.6	44.8	41.3	46.8	45.0	46.5	47.0	45.6	45.3
12500	39.1	39.8	42.3	44.9	42.8	39.2	42.0	38.7	40.5	36.8	42.5	40.6	42.1	42.6	41.1	40.7
16000	34.3	34.9	37.7	40.4	38.2	34.7	37.4	34.3	36.1	32.0	37.7	35.8	37.3	37.8	36.2	35.7
20000	29.2	29.6	32.7	35.5	33.2	29.8	32.4	28.3	30.7	26.9	32.5	30.8	32.2	32.6	30.8	30.2
25000	23.9	24.1	27.2	30.1	27.6	24.5	27.0	23.0	25.3	21.7	26.8	25.5	26.7	26.9	25.0	24.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE										IDENTIFICATIONS:									
										) OMEGA 8.2									
										) TEST 74-004-037									
										) RUN 03									
NOISE SOURCE/SUBJECT:										) METEOROLOGY:									
AC-123K AIRCRAFT										) TEMP = 59 F									
ENGS R-2800-99W, J85-171J										) BAK PRESS = 29.92 IN HG									
										) REL HUMID = 73 %									
										) DELTA N = -3.0 DB									
										) PAGE E3									
(DISTANCE										(ANGLE (DEGREES)									
((FEET)										(00 90 100 110 120 130 140 150 160 170 180									
(200	107.8	109	1.5	113.0	110.2	110.2	111.2	109.9	111.1	109.7	110.2	110.7	111.4	110.1	108.1	117.2	100.0	89.7	79.2
(250	105.7	107.	-08.3	110.9	108.1	108.1	109.0	107.7	108.9	107.5	108.1	108.6	109.2	107.9	105.0	105.1	97.8	87.5	77.0
(315	103.5	104.9	106.1	106.7	105.9	105.9	106.8	105.4	106.6	105.2	105.9	106.4	107.1	105.8	103.8	102.9	95.6	85.2	74.7
(400	101.2	102.6	103.9	106.5	103.6	103.7	104.6	103.1	104.2	102.8	103.7	104.2	104.9	103.6	101.6	100.7	93.3	82.9	72.4
(500	98.8	103.2	104.6	104.3	101.3	101.3	102.2	100.7	101.7	100.3	101.3	101.9	102.6	101.3	99.3	98.4	91.0	80.5	70.1
(630	96.2	97.6	99.2	101.9	98.9	98.8	99.6	98.1	99.1	97.6	98.8	99.3	100.0	98.9	96.9	96.0	88.5	78.1	67.6
(800	93.6	95.0	96.7	99.5	96.4	96.0	97.0	95.5	96.5	94.8	96.2	96.7	97.3	96.4	94.4	93.6	86.0	75.6	65.0
(1000	90.9	92.1	94.1	96.9	93.8	93.1	94.3	92.6	93.8	91.8	93.6	93.8	94.5	93.8	91.8	91.0	83.4	72.9	62.2
(1250	87.8	89.0	91.3	94.2	91.0	90.0	91.5	89.5	91.0	88.5	90.7	90.7	91.4	91.0	89.0	88.2	80.6	70.1	59.4
(1600	84.8	86.0	88.4	91.3	88.1	86.5	88.2	86.2	87.9	85.0	87.7	87.3	88.4	88.1	86.1	85.4	77.7	67.2	56.1
(2000	81.6	82.7	85.3	88.3	85.1	83.5	85.2	82.7	84.8	81.2	84.6	83.5	85.3	85.1	83.0	82.4	74.6	64.3	52.9
(2500	77.8	79.2	81.5	84.5	81.5	79.6	81.7	78.7	81.3	77.2	81.1	80.0	81.5	81.7	79.4	78.6	70.8	60.0	48.3
(3150	73.7	75.1	77.4	80.2	77.5	75.5	77.6	74.6	77.3	73.0	77.1	75.9	77.5	77.7	75.4	74.4	66.5	55.5	43.1
(4000	69.2	70.3	72.8	75.2	72.9	70.6	72.9	69.7	72.4	68.2	72.4	71.1	72.7	73.0	71.8	69.5	61.9	50.6	37.6
(5000	64.2	65.3	67.7	70.1	67.9	65.3	67.8	64.5	67.1	62.9	67.5	66.0	67.6	67.9	65.7	64.8	56.8	44.8	31.2
(6300	59.0	60.0	62.4	64.9	62.7	59.8	62.5	58.9	61.6	57.4	62.2	60.7	62.2	62.5	60.5	59.6	51.5	38.9	22.4
(8000	54.8	55.4	58.3	60.8	58.6	55.4	58.3	54.5	57.1	52.9	58.1	56.4	57.9	58.4	56.2	55.1	47.0	33.7	14.6
(10000	50.4	50.7	53.9	56.4	54.2	50.7	53.8	49.7	52.1	47.7	53.5	51.8	53.2	53.8	51.5	50.4	41.9	27.6	6.8
(12500	45.1	45.4	48.0	51.8	49.3	45.6	49.0	44.4	47.1	42.8	48.7	46.8	48.2	48.9	46.7	45.1	35.8	20.3	
(16000	39.3	39.6	42.6	46.7	44.0	39.4	43.3	37.9	41.0	35.2	43.1	40.9	42.4	43.4	40.6	38.6	29.4	8.4	
(20000	32.1	31.8	35.0	40.4	36.9	32.5	36.8	30.8	33.6	27.6	36.0	33.9	35.8	35.8	33.2	31.6	20.1		
(25000	20.4	21.3	26.2	32.3	29.0	23.3	29.2	18.5	25.2	13.3	27.6	24.5	27.4	27.7	24.4	22.0	7.1		

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

AC-125K AIRCRAFT

ENGINE R-2500-93M, J65-17TU

GROUND RUNUP

OPERATION:

POWER RUNUP, 2200 RPM

SINGLE RECIP ENGINE

METECOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:

OMEGA 0.2

TEST 74-304-337

RUN 03

AIRCRAFT CODE 023

OPERATION CODE 02003

PROFILE VERSION 1

25 FEB 76

PAGE J3

ANGLE IN DEGREES	P=PNLT												A=AL												T=ALT												NOISE LEVEL IN PNDB OR DBA
	20	30	40	50	60	70	80	90	100	110	120	20	30	40	50	60	70	80	90	100	110	120	20	30	40	50	60	70	80	90	100	110	120				
0			
10			
20			
30			
40			
50			
60			
70			
80			
90			
100			
110			
120			
130			
140			
150			
160			
>170			
>180			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D3M)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										) IDENTIFICATION:1									
(AC-123K AIRCRAFT										) OMEGA 8.2									
(ENGS R-2800-93M, J65-17TJ										) TEST 74-004-037									
(GROUND RUNUP										) RUN 03									
(OPERATION: POWER RUNUP, 2200 RPM										) METEOROLOGY:1									
(SINGLE RECIP ENGINE										) TEMP = 59 F									
( )										) BAR PRESS =29.92 IN HG									
( )										) REL HUMID = 70 %									
( )										) DELTA N = -3.0 DB									
( )										) AIRCRAFT CODE 023									
( )										) OPERATION CODE 02008									
( )										) PROFILE VERSION A									
( )										) 25 FEB 76									
( )										) PAGE 63									
DISTANCE																			
(FEET)	5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	94.1	95.4	97.1	99.5	97.0	95.3	97.2	95.2	97.1	94.4	96.7	95.8	97.5	97.0	95.5	94.8	96.8	76.8	66.8
250	92.0	93.4	95.0	97.4	94.9	93.1	95.1	93.1	94.9	92.2	94.6	93.8	95.4	95.0	93.4	92.8	84.8	74.8	64.8
315	89.9	91.2	92.9	95.3	92.8	91.0	92.9	90.9	92.7	90.0	92.5	91.7	93.3	92.9	91.4	90.7	82.7	72.7	62.7
400	87.8	89.1	90.7	93.2	90.7	88.8	90.8	88.6	90.5	87.7	90.4	89.5	91.2	90.8	89.2	88.6	80.5	70.5	60.5
500	85.6	86.9	88.6	91.1	88.5	86.6	88.5	86.3	88.2	85.3	88.2	87.3	89.0	88.6	87.1	86.4	78.3	68.3	58.3
630	83.3	84.6	86.3	88.9	86.3	84.3	86.2	84.0	85.9	82.9	85.9	85.0	86.7	86.4	84.9	84.2	76.1	66.1	56.1
800	80.9	82.3	84.1	86.7	84.1	82.0	83.9	81.5	83.5	80.4	83.6	82.7	84.4	84.1	82.6	82.0	73.9	63.9	53.9
1000	78.9	79.9	81.7	84.4	81.8	79.5	81.5	79.1	81.1	77.8	81.2	80.2	82.1	81.8	80.3	79.7	71.5	61.5	51.5
1250	76.9	77.3	79.3	82.0	79.3	77.0	78.9	76.3	78.5	75.1	78.7	77.7	79.6	79.4	77.8	77.3	69.1	59.1	49.1
1500	74.9	76.7	78.1	79.5	76.8	74.4	76.3	73.6	75.9	72.3	76.2	75.1	77.1	76.9	75.3	74.8	66.6	56.6	46.6
2000	70.5	71.9	74.1	77.0	74.2	71.7	73.6	70.7	73.3	69.4	73.6	72.4	74.5	74.4	72.8	72.3	64.0	54.0	44.0
2500	67.3	68.9	71.0	73.9	71.2	68.6	70.6	67.6	70.3	66.2	70.7	69.4	71.5	71.5	69.8	69.3	61.0	51.0	41.0
3150	63.9	65.0	67.5	70.3	67.7	65.1	67.1	64.1	66.8	62.7	67.4	66.1	68.1	68.2	66.6	66.1	57.7	47.7	37.7
4000	60.2	61.8	63.5	66.1	63.8	61.0	63.1	60.1	62.7	58.8	63.6	62.2	64.1	64.3	62.8	62.3	54.1	44.1	34.1
5000	56.0	57.5	59.0	61.4	59.3	56.4	58.7	55.7	58.1	54.5	59.4	57.9	59.7	59.9	58.5	58.1	50.0	40.0	30.0
6300	51.6	52.9	54.4	56.6	54.7	51.6	54.0	51.0	53.3	49.9	54.9	53.3	55.0	55.2	54.0	53.7	45.6	35.6	25.6
8000	47.8	48.8	50.6	52.9	51.0	47.5	50.2	46.9	49.2	45.7	51.0	49.3	50.9	51.3	50.0	49.7	41.8	31.8	21.8
10000	43.6	44.4	45.5	48.9	47.0	43.4	46.1	42.6	44.8	41.3	46.8	45.0	46.5	47.0	45.6	45.3	37.7	27.7	17.7
12500	39.1	39.8	42.3	44.9	42.8	39.2	42.0	38.2	40.5	36.8	42.5	40.8	42.1	42.6	41.1	40.7	33.3	23.3	13.3
15000	34.3	34.9	37.7	40.4	38.2	34.7	37.4	33.4	35.8	32.0	37.7	35.8	37.3	37.8	36.2	35.7	28.4	18.4	8.4
20000	29.2	29.6	32.7	35.5	33.2	29.8	32.4	28.3	30.7	26.9	32.5	30.8	32.2	32.6	31.0	30.2	23.1	13.1	3.1
25000	23.9	24.1	27.2	30.1	27.6	24.5	27.0	23.0	25.0	21.7	26.8	25.5	26.7	26.9	25.0	24.3	17.4	7.4	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNL)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT:																		
(AC-123K AIRCRAFT																		
(ENGINE R-2800-93M, J85-17TJ																		
(GROUND RUNUP																		
(OPERATION:																		
(MAXIMUM POWER, NO JETS																		
(SINGLE RECIP ENGINE																		
(METEOROLOGY:																		
(TEMP = 59 F																		
(BAR PRESS = 29.92 IN HG																		
(REL HUMID = 70 %																		
(DELTA N = -3.0 DB																		
(PAGE 04																		
IDENTIFICATIONS:																		
(OMEGA 8.2																		
(TEST 74-004-037																		
(RUN 04																		
(AIRCRAFT CODE 023																		
(OPERATION CODE 02029																		
(PROFILE VERSION A																		
(25 FEB 76																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()																		
()</																		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:)										IDENTIFICATION:									
AC-123K AIRCRAFT (MAXIMUM POWER, NO JETS )										) OMEGA 8.2									
ENGS R-2300-99W, J85-17TJ (SINGLE RECIP ENGINE )										) TEST 74-004-037									
GROUND RUNUP ( )										) RUN 04									
( )										) METEOROLOGY:) AIRCRAFT CODE 023									
( )										) TEMP = 59 F) OPERATION CODE 02029									
( )										) BAR PRESS = 29.92 IN HG) PROFILE VERSION A									
( )										) REL HUMID = 70 %) 25 FEB 76									
( )										) DELTA N = -3.0 DB) PAGE C4									
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	91	89	88	84	81	83	88	87	86	90	95	92	88	89	91	82	81	71	61
63	98	100	102	97	94	97	100	100	100	105	107	104	100	101	101	92	91	81	71
80	91	90	87	87	87	85	84	83	82	83	85	86	89	90	90	89	79	69	59
100	91	90	90	90	92	92	92	90	89	90	92	94	96	94	91	91	82	72	62
125	98	98	99	100	102	102	102	99	97	99	103	106	106	103	98	95	89	79	69
150	102	104	106	105	103	105	106	102	100	103	106	109	110	106	99	98	90	80	70
200	95	95	97	95	92	92	92	92	92	96	101	100	97	93	91	87	81	71	61
250	97	97	97	97	97	95	94	94	95	97	99	95	89	90	93	88	78	68	58
315	98	99	99	99	98	98	97	96	96	98	100	97	95	95	95	93	85	75	65
400	96	98	100	101	103	97	94	93	93	94	97	98	97	97	95	91	83	73	63
500	92	95	100	96	97	96	95	95	94	95	96	96	96	96	96	90	82	72	62
630	88	90	94	92	90	90	91	90	89	91	93	93	93	93	94	89	82	72	62
800	89	90	92	92	90	89	90	90	92	93	95	96	98	97	93	88	82	72	62
1000	88	89	89	88	87	88	89	88	90	91	92	92	92	92	91	87	80	70	60
1250	88	89	90	88	88	88	89	88	89	90	91	90	90	89	88	84	79	69	59
1600	86	89	92	91	93	90	91	90	90	90	90	90	90	87	85	81	77	67	57
2000	87	89	91	90	89	90	92	91	91	90	89	89	88	87	85	80	78	68	58
2500	85	87	89	89	88	89	90	89	90	90	89	89	88	87	86	84	80	76	66
3150	83	86	88	87	87	88	89	89	90	90	89	89	87	85	83	81	78	74	64
4000	82	84	87	87	86	86	89	89	89	89	89	89	87	85	83	81	78	75	65
5000	80	82	84	84	84	85	86	86	87	87	86	84	83	81	79	76	72	62	52
6300	78	80	83	82	82	83	85	85	85	85	84	82	81	79	76	74	70	60	50
8000	76	78	80	80	80	82	83	83	83	83	82	81	80	77	75	72	69	59	49
10000	72	74	76	76	76	77	78	79	79	78	78	76	75	73	70	68	64	54	44
OVERALL	108	109	111	110	109	109	110	108	107	110	112	113	113	110	107	103	97	87	77

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT 1																			
(AC-123K AIRCRAFT)																			
(ENGS R-286J-99M, J85-171J)																			
(GROUND RUNUP)																			
IDENTIFICATIONS:																			
) OMEGA 8.2																			
) TEST 74-004-037																			
) AIRCRAFT CODE 023																			
) OPERATION CODE 02029																			
) PROFILE VERSION A																			
) 25 FEB 76																			
) PAGE F4																			
) RUN 04																			
METEOROLOGY 1																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
DISTANCE (FEET)																			
200	102.1	103.6	105.9	105.4	104.3	104.1	104.4	104.0	104.1	104.7	105.7	105.6	105.6	105.4	102.6	98.3	92.3	82.3	72.3
250	100.0	101.5	103.8	103.3	102.2	101.9	102.2	101.8	101.9	102.5	103.6	103.7	103.6	102.3	100.5	96.2	90.2	80.2	70.2
300	97.9	99.4	101.7	101.1	100.1	99.8	100.0	99.6	99.7	100.4	101.5	101.6	101.7	100.2	98.1	94.1	88.0	78.0	68.0
350	95.8	97.3	99.5	99.0	97.9	97.6	97.8	97.4	97.4	98.1	99.3	99.5	99.5	98.1	96.3	91.9	85.9	75.9	65.9
400	93.6	95.1	97.3	96.8	95.7	95.3	95.5	95.1	95.1	95.9	97.1	97.2	97.3	95.9	94.2	89.8	83.6	73.6	63.6
450	91.3	92.8	95.1	94.5	93.5	93.0	93.1	92.7	92.6	93.5	94.7	94.9	95.0	93.6	92.0	87.5	81.3	71.3	61.3
500	89.0	90.4	92.8	92.2	91.1	90.6	90.7	90.2	90.3	91.1	92.4	92.5	92.6	91.3	89.7	85.2	79.0	69.0	59.0
550	86.6	88.0	90.4	89.9	88.7	88.1	88.1	87.7	87.8	88.5	89.9	90.1	90.1	89.0	87.4	82.9	76.6	66.6	56.6
600	84.0	85.5	87.9	87.4	86.2	85.5	85.5	85.1	85.1	85.9	87.3	87.5	87.6	86.5	85.0	80.4	74.1	64.1	54.1
650	81.3	82.8	85.3	84.8	83.6	82.8	82.7	82.3	82.4	83.2	84.5	84.8	85.0	84.0	82.5	77.8	71.4	61.4	51.4
700	78.5	80.0	82.6	82.2	81.0	80.0	79.8	79.4	79.5	80.4	81.7	82.1	82.2	81.4	79.9	75.2	68.7	58.7	48.7
750	75.2	76.8	79.5	79.0	77.7	76.8	76.6	76.2	76.4	77.3	78.6	79.7	79.9	78.5	77.0	72.2	65.7	55.7	45.7
800	71.6	73.3	76.0	75.4	74.1	73.2	73.1	72.7	72.9	73.9	75.2	75.6	75.9	75.2	73.8	68.9	62.4	52.4	42.4
850	67.7	69.4	72.1	71.4	70.1	69.2	69.2	68.9	69.2	70.2	71.4	72.1	72.3	71.7	70.3	65.2	58.8	48.8	38.8
900	63.4	65.1	67.8	67.0	65.7	64.9	64.9	64.7	65.1	66.1	67.3	67.9	68.3	67.7	66.2	61.1	54.7	44.7	34.7
950	58.9	60.5	63.3	62.4	61.1	60.4	60.4	60.2	60.6	61.7	62.9	63.6	64.0	63.5	61.9	56.7	50.4	40.4	30.4
1000	55.1	56.8	59.7	58.8	57.4	56.6	56.5	56.2	56.6	57.7	59.1	59.5	60.2	59.6	58.1	52.9	46.4	36.4	26.4
1050	51.0	52.8	55.8	55.0	53.5	52.6	52.4	52.0	52.3	53.5	54.9	55.6	56.4	55.5	54.0	48.8	42.1	32.1	22.1
1100	46.7	48.5	51.6	50.8	49.4	48.3	48.0	47.6	47.7	48.9	50.5	51.1	51.5	50.9	49.6	44.3	37.5	27.5	17.5
1150	42.1	43.9	47.1	46.3	44.9	43.8	43.4	42.8	42.7	44.0	45.7	46.2	46.6	45.9	44.6	39.5	32.4	22.4	12.4
1200	37.2	39.0	42.1	41.4	40.0	38.9	38.4	37.7	37.4	38.7	40.6	41.1	41.4	40.5	39.2	34.2	27.0	17.0	7.0
1250	32.0	33.7	36.7	36.1	34.7	33.6	33.2	32.2	31.7	33.3	35.4	35.9	36.1	34.8	33.4	28.5	21.3	11.3	1.3
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
AC-123K AIRCRAFT																			
ENGS R-2800-99W, J85-171J																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 8-2																			
TEST 74-804-037																			
AIRCRAFT CODE 023																			
OPERATION CODE 92029																			
PROFILE VERSION A																			
25 FEB 76																			
PAGE E4																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
230	116.9	118.7	120.9	120.3	119.2	119.3	120.1	119.4	119.3	119.7	120.6	121.7	122.2	119.3	116.2	112.8	106.7	96.6	86.3
250	114.7	116.5	118.8	118.2	117.1	117.1	118.0	117.2	117.0	117.4	118.7	119.6	120.1	117.2	114.1	110.6	104.5	94.4	84.0
315	112.6	114.4	116.6	116.0	114.9	115.0	115.3	114.9	114.7	115.2	116.5	117.4	117.9	115.0	111.9	108.5	102.3	92.1	81.7
430	110.3	112.1	114.4	113.8	112.7	112.7	113.5	112.6	112.4	112.3	114.3	115.2	115.6	112.8	109.7	106.2	100.0	89.7	79.3
500	108.0	109.7	111.9	111.5	110.3	110.2	111.0	110.1	109.9	110.3	112.8	113.2	113.2	110.4	107.4	103.8	97.5	87.2	76.8
630	105.7	107.2	109.4	109.1	108.0	107.7	108.5	107.6	107.3	107.8	109.3	110.2	110.7	107.8	105.0	101.3	95.0	84.6	74.2
800	103.2	104.6	106.9	106.6	105.5	105.0	105.8	104.9	104.6	105.1	106.6	107.6	108.0	105.2	102.6	98.8	92.3	81.9	71.4
1000	100.6	102.0	104.3	104.0	102.9	102.1	102.9	102.1	101.8	102.4	103.8	104.7	105.2	102.4	100.3	96.1	89.4	79.3	69.5
1250	97.6	99.3	101.6	101.3	100.1	99.2	99.8	99.0	98.7	99.3	100.6	101.7	102.2	99.4	97.3	93.3	86.4	76.0	65.4
1500	94.6	96.3	98.7	98.4	97.2	96.2	96.5	95.7	95.5	96.0	97.5	98.4	98.9	96.2	94.4	90.3	83.3	72.9	62.3
2000	91.5	93.2	95.6	95.4	94.1	93.0	92.9	92.2	91.9	92.5	94.3	94.7	95.2	93.1	91.3	87.2	80.1	69.7	59.9
2500	87.6	89.3	91.9	91.5	90.3	89.1	89.2	88.5	88.0	88.9	90.4	90.8	91.2	89.5	87.8	83.3	76.2	65.7	54.7
3150	83.2	85.0	87.8	87.2	85.9	84.9	85.1	84.3	83.9	84.8	86.1	86.5	87.1	85.5	83.9	79.1	72.2	61.5	49.9
4000	78.1	80.0	83.1	82.1	80.8	80.1	80.2	79.5	79.2	80.3	81.3	82.0	82.5	81.1	79.3	74.3	67.5	56.7	44.3
5000	72.7	74.9	78.0	77.0	75.5	75.0	75.0	74.4	74.1	75.0	76.3	77.2	77.7	76.3	74.4	69.2	62.3	51.2	38.3
6300	67.4	69.6	72.7	71.7	70.2	69.7	69.6	69.0	68.7	69.7	71.2	72.0	72.4	71.2	69.2	63.9	57.0	45.0	31.3
8000	63.3	65.7	68.6	67.5	66.1	65.5	65.3	64.7	64.4	65.5	67.0	67.6	68.0	66.8	65.1	59.7	52.3	39.7	23.5
10000	58.8	61.0	64.1	63.1	61.6	60.9	60.7	60.2	59.9	61.1	62.7	62.8	63.1	62.0	60.7	55.1	47.0	33.4	13.7
12500	54.1	56.2	59.6	58.6	56.9	56.3	56.0	55.4	55.0	56.3	58.1	58.2	58.0	57.4	56.1	50.2	41.0	26.5	7.0
16000	48.8	51.1	54.5	53.4	51.9	51.1	50.7	49.9	49.5	51.0	53.0	53.1	52.9	52.4	51.0	44.5	34.7	17.2	
20000	42.7	44.1	47.0	46.2	45.0	44.5	44.5	43.7	43.3	45.0	47.2	47.4	47.6	46.5	45.0	38.0	27.1	7.8	
25000	36.2	38.1	42.3	41.3	39.9	38.1	37.4	36.5	35.9	37.9	40.4	40.9	41.1	39.1	37.6	30.3	13.3		

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: AC-123K AIRCRAFT
 ENGINE: R-24C-93M, J85-177J
 GROUND RUNUP

OPERATION: MAXIMUM POWER, NO JETS
 SINGLE RECIP ENGINE

METEOROLOGY: 59 F
 TLP
 BAR PRESS = 29.92 IN HG
 REL HUMID = 78 %
 DELTA M = -3.0 DB

IDENTIFICATION: OMEGA 8.2
 TEST 74-064-037
 RUN 34
 AIRCRAFT CODE 323
 OPERATION CODE 22329
 PROFILE VERSION A
 25 FEB 76
 PAGE J4

	P=PNLT										A=AL										T=AL									
	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130								
0																														
10																														
20																														
30																														
40																														
50																														
60																														
70																														
80																														
90																														
100																														
110																														
120																														
130																														
140																														
150																														
160																														
170																														
180																														

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUB-ECI:										METEOROLGY:									
(AC-123K AIRCRAFT)										TEMP = 59 F									
(ENCS R-2800-99M, J85-171J)										BAR PRESS = 29.92 IN HG									
(GROUND RUNUP)										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									
()										25 FEB 76									
()										PAGE 64									
()										IDENTIFICATION:									
()										OMEGA 8.2									
()										TEST 74-004-037									
()										RUN 04									
()										METEOROLGY:									
()										TEMP = 59 F									
()										BAR PRESS = 29.92 IN HG									
()										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										AIRCRAFT CODE 023									
()										OPERATION CODE 02029									
()										PROFILE VERSION A									

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
AC-123K AIRCRAFT																
ENCS R-2800-93M, J85-17TJ																
GR-UND RUNUP																
OPERATION:																
MAXIMUM POWER																
ONE RECIP PLUS ONE JET																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-037																
RUN 05																
AIRCRAFT CODE 923																
OPERATION CODE 0210																
PROFILE VERSION A																
25 FEB 76																
PAGE 05																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	116.8	117.8	119.6	119.5	119.6	119.3	118.7	119.1	119.6	120.3	121.2	121.9	122.7	121.4	120.7	119.2
250	114.6	115.6	117.5	117.3	117.4	117.2	116.5	116.9	117.4	118.0	118.9	119.7	120.6	119.2	118.5	116.0
315	112.3	113.3	115.3	115.1	115.1	114.7	114.2	114.6	115.1	115.7	116.6	117.0	118.4	117.1	116.4	113.8
400	109.9	111.0	113.0	112.8	112.7	112.4	111.9	112.2	112.7	113.3	114.3	115.3	116.1	114.8	114.2	111.6
500	107.4	108.5	110.6	110.4	110.2	109.9	109.5	109.7	110.2	110.9	111.8	112.6	113.7	112.4	111.9	109.3
630	104.9	106.0	108.0	107.8	107.6	107.4	107.0	107.1	107.6	108.3	109.2	110.3	111.2	110.0	109.5	107.0
800	102.2	103.4	105.3	105.1	105.0	104.7	104.3	104.3	104.8	105.5	106.5	107.6	108.5	107.5	107.1	104.5
1000	99.4	100.6	102.7	102.2	102.2	101.9	101.6	101.5	101.9	102.6	103.6	104.8	105.7	104.9	104.5	101.9
1250	96.3	97.6	99.9	99.3	99.2	98.8	98.5	98.5	98.7	99.6	100.6	101.7	102.7	102.2	101.8	99.2
1600	93.1	94.3	96.9	96.3	95.9	95.6	95.3	95.3	95.4	96.3	97.3	98.4	99.3	98.3	98.9	96.3
2000	89.5	91.1	93.8	93.2	92.6	92.0	91.8	91.7	91.3	92.8	93.8	94.9	96.3	96.2	95.8	93.2
2500	85.6	87.3	89.9	89.3	88.7	88.1	87.3	87.9	88.3	89.8	91.1	92.6	92.7	92.4	92.4	90.1
3150	81.3	83.2	85.8	85.1	84.4	84.0	83.6	83.6	83.8	84.5	85.5	86.8	86.5	86.7	86.4	83.7
4000	78.7	79.6	81.3	80.5	79.9	79.4	79.1	79.0	79.2	79.7	80.5	82.2	82.0	82.4	82.4	80.4
5000	74.9	75.7	77.5	76.5	75.7	74.9	74.5	74.2	74.1	74.3	74.8	75.5	77.3	79.5	79.2	76.6
6300	66.8	68.6	71.5	70.6	69.8	69.4	69.0	68.9	69.2	69.6	70.3	72.2	74.2	74.3	74.3	71.6
8000	62.4	64.6	67.5	66.6	65.7	65.3	64.9	64.8	65.3	65.4	66.2	68.2	70.2	70.6	70.4	67.7
10000	57.6	60.2	63.3	62.3	61.4	61.0	60.7	60.9	60.6	61.1	61.9	63.9	66.0	66.5	66.3	63.5
12500	52.5	55.4	58.7	57.6	56.7	56.2	55.9	55.7	55.6	56.3	57.1	59.3	61.4	62.3	61.8	59.0
16000	46.8	49.9	53.5	52.3	51.2	50.8	50.5	50.2	50.2	50.9	52.0	54.2	56.4	56.9	56.8	53.7
20000	40.3	43.8	47.9	46.5	45.2	44.6	44.4	43.9	44.0	44.8	45.9	48.5	50.8	51.4	51.3	48.1
25000	32.4	36.6	41.0	39.5	38.1	37.6	37.2	36.7	36.7	37.6	39.0	41.5	44.1	44.9	44.7	41.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 023																			
AC-123K AIRCRAFT (MAXIMUM POWER) TEMP = 59 F) OPERATION CODE 0210																			
EMGS R-2800-99M, J85-171J (ONE RECIP PLUS ONE JET) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP (REL HUMID = 70 %) 25 FEB 76																			
(DELTA M = -3.0 DB) PAGE C5																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>100	
50	79	83	87	85	84	87	87	86	85	91	95	93	91	91	90	88	86	76	66
63	93	96	90	96	95	97	100	99	98	103	107	105	103	102	101	96	92	82	72
80	88	87	87	86	85	84	84	84	84	84	87	88	91	93	94	93	91	81	71
100	91	91	90	91	90	90	90	90	90	91	92	95	97	98	97	95	93	83	73
125	94	96	98	100	101	100	99	98	96	98	102	104	107	103	101	98	96	86	76
160	100	102	106	106	105	105	105	102	101	103	107	109	110	107	103	100	97	87	77
200	95	95	95	94	92	93	95	93	93	97	100	100	99	100	101	98	91	81	71
250	90	93	96	95	94	94	93	93	94	96	99	98	96	99	100	97	92	82	72
315	94	95	97	96	95	96	96	96	95	96	98	98	99	100	100	99	97	87	77
400	91	96	100	98	97	96	95	95	94	95	96	98	100	101	101	99	95	85	75
500	91	95	99	97	96	95	95	95	95	95	95	97	100	101	102	99	95	85	75
630	87	86	93	92	91	92	92	92	91	91	91	93	96	97	98	96	94	84	74
800	91	92	92	92	92	92	91	92	92	92	92	95	98	98	97	94	92	82	72
1000	89	89	89	89	89	89	89	90	90	90	91	91	92	91	91	90	89	79	69
1250	90	90	90	90	91	89	88	89	90	91	91	92	94	92	91	90	88	78	68
1600	90	91	92	92	93	91	90	91	92	92	92	94	96	94	93	90	88	78	68
2000	90	91	92	92	93	93	92	92	93	93	94	95	96	94	93	90	88	78	68
2500	88	89	90	91	91	90	90	90	91	91	91	92	93	92	91	89	86	76	66
3150	88	88	89	90	91	90	89	91	92	92	92	92	91	90	89	86	84	74	64
4000	87	87	88	89	90	89	88	89	90	90	91	91	91	89	87	85	83	73	63
5000	86	86	87	87	88	87	86	86	86	86	86	86	86	84	82	81	71	61	
6300	84	84	85	86	86	86	85	86	87	87	87	86	86	84	82	80	78	68	58
8000	85	85	85	86	86	86	85	85	85	86	86	85	83	81	79	78	76	66	56
10000	79	79	79	80	81	81	79	80	81	81	82	81	79	77	75	73	71	61	51
OVERALL	105	107	110	110	109	109	109	108	107	109	112	113	114	112	111	109	106	96	86
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
AC-123K AIRCRAFT																			
ENGS R-2800-99H, J85-171J																			
GROUND RUNUP																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
ANGLE (DEGREES)																			
200	102.7	113.9	105.6	105.6	105.5	105.0	104.5	104.7	105.1	105.5	106.2	107.4	108.8	108.2	107.8	105.4	102.8	92.8	82.8
250	100.5	101.8	103.7	103.4	103.3	102.9	102.3	102.5	102.9	103.3	104.0	105.2	106.7	106.1	105.7	103.3	100.7	90.7	80.7
315	98.3	99.6	101.5	101.3	101.2	100.6	100.2	100.3	100.7	101.1	101.8	103.1	104.5	104.0	103.6	101.2	98.6	88.6	78.6
400	96.1	97.4	99.4	99.0	98.9	98.4	97.9	98.0	98.4	98.8	99.5	100.9	102.4	101.8	101.4	99.1	96.4	86.4	76.4
500	93.8	95.1	97.1	96.8	96.6	96.0	95.6	95.7	96.1	96.5	97.3	98.6	100.1	99.5	99.3	96.5	94.3	84.3	74.3
630	91.4	92.7	94.8	94.4	94.2	93.6	93.3	93.3	93.7	94.1	94.8	96.2	97.8	97.3	97.0	94.6	92.0	82.0	72.0
800	88.9	90.3	92.4	92.0	91.8	91.2	90.8	90.9	91.2	91.6	92.3	93.8	95.4	95.0	94.7	92.4	89.8	79.8	69.8
1000	86.4	87.8	90.0	89.5	89.2	88.7	88.3	88.4	88.7	89.1	89.8	91.2	93.0	92.0	92.4	90.0	87.4	77.4	67.4
1250	83.8	85.2	87.5	86.9	86.6	86.0	85.7	85.7	86.0	86.4	87.0	88.6	90.4	89.1	89.5	87.6	84.9	74.9	64.9
1600	81.0	82.5	84.9	84.3	83.9	83.3	83.0	83.0	83.3	83.6	84.2	85.8	87.7	87.6	87.4	85.0	82.4	72.4	62.4
2000	78.1	79.7	82.2	81.5	81.0	80.5	80.1	80.1	80.4	80.7	81.2	83.0	85.0	84.9	84.8	82.4	79.7	69.7	59.7
2500	75.0	76.6	79.0	78.3	77.8	77.3	77.0	77.0	77.3	77.5	77.9	79.8	81.9	81.8	81.8	79.4	76.7	66.7	56.7
3150	71.6	73.1	75.5	74.8	74.3	73.8	73.5	73.5	73.8	73.9	74.0	76.3	78.5	78.5	78.4	76.1	73.5	63.5	53.5
4000	67.9	69.3	71.6	70.9	70.4	70.0	69.7	69.8	70.1	70.2	70.4	72.5	74.8	74.8	74.7	72.4	69.8	59.8	49.8
5000	63.8	65.1	67.3	66.6	66.2	65.7	65.5	65.6	65.9	66.0	66.2	68.3	70.6	70.6	70.5	68.2	65.7	55.7	45.7
6300	59.3	60.6	62.8	62.1	61.6	61.2	61.0	61.0	61.1	61.1	61.5	63.8	66.1	66.1	66.1	63.8	61.3	51.3	41.3
8000	55.2	56.6	59.1	58.3	57.6	57.3	57.1	57.1	57.1	57.4	57.6	59.9	62.3	62.4	62.4	60.1	57.5	47.5	37.5
10000	50.7	52.3	55.1	54.2	53.4	53.1	52.9	52.8	53.1	53.1	53.4	55.6	58.1	58.4	58.4	56.1	53.4	43.4	33.4
12500	45.9	47.6	50.9	49.8	48.9	48.6	48.5	48.3	48.5	48.5	48.9	51.2	53.7	54.1	54.2	51.7	48.9	38.9	28.9
16000	40.6	43.0	46.3	45.2	44.2	43.9	43.7	43.4	43.5	43.7	44.3	46.3	48.9	49.3	49.5	46.9	44.0	34.0	24.0
20000	35.3	37.8	41.3	40.2	39.1	38.8	38.6	38.2	38.1	38.5	39.4	41.5	43.7	44.1	44.3	41.7	38.6	28.6	18.6
25000	29.7	32.3	35.9	34.8	33.7	33.3	33.1	32.5	32.4	33.0	34.4	36.3	38.2	38.5	38.6	35.9	32.7	22.7	12.7
SPL DATA WERE EXTRAPOLATED FOR THIS TABLE																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
AC-123K AIRCRAFT										OMEGA 8.2									
ENGINE R-2800-59M, J85-171J										TEST 74-064-037									
GROUND RUNUP										AIRCRAFT CODE 023									
										OPERATION CODE 0210									
										PROFILE VERSION A									
										25 FEB 76									
										PAGE 05									
										METEOROLOGICAL									
										TEMP = 59 F									
										BAR PRESS = 29.92 IN HG									
										REL HUMID = 73 %									
										DELTA N = -3.0 DB									
										PAGE 05									
DISTANCE (FEET)										ANGLE (DEGREES)									
1 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	113.0	113.3	121.3	121.1	121.1	120.7	120.0	120.3	120.7	121.2	122.1	123.0	124.3	122.5	123.7	118.2	116.1	106.3	95.9
250	115.7	117.1	119.1	119.3	119.3	118.4	117.8	118.2	118.4	119.0	119.9	120.9	122.2	120.4	118.5	116.0	114.0	103.9	93.6
315	113.4	114.9	116.3	116.3	116.5	116.1	115.6	115.7	116.1	116.7	117.6	118.7	120.0	118.3	116.4	113.8	111.8	101.7	91.4
400	111.1	112.5	114.5	114.5	114.7	114.2	113.7	113.3	113.3	113.7	114.3	115.3	116.4	114.7	113.0	110.2	107.6	97.4	87.1
500	109.6	111.0	112.2	112.6	112.7	112.1	111.5	111.3	111.3	111.6	112.0	112.6	113.4	111.6	109.8	107.0	104.3	94.1	83.8
630	105.4	107.5	109.5	109.4	109.2	108.7	108.3	108.3	108.6	109.2	109.8	110.4	111.0	109.2	107.3	104.5	101.8	91.6	81.3
800	103.4	105.3	107.3	107.2	107.0	106.7	106.5	106.5	106.7	107.0	107.3	107.6	108.0	106.2	104.3	101.5	98.8	88.6	78.3
1000	101.2	103.1	105.1	105.0	104.8	104.5	104.3	104.3	104.5	104.8	105.1	105.4	105.7	103.9	102.0	99.2	96.5	86.3	76.0
1200	97.5	99.4	101.4	101.3	101.1	100.8	100.6	100.6	100.8	101.1	101.4	101.7	102.0	100.2	98.3	95.5	92.8	82.6	72.3
1500	94.2	96.1	98.1	98.0	97.8	97.5	97.3	97.3	97.5	97.8	98.1	98.4	98.7	96.9	95.0	92.2	89.5	79.3	69.0
2000	90.7	92.6	94.6	94.5	94.3	94.0	93.8	93.8	94.0	94.3	94.6	94.9	95.2	93.4	91.5	88.7	86.0	75.8	65.5
2500	88.3	90.3	92.3	92.2	92.0	91.7	91.5	91.5	91.7	92.0	92.3	92.6	92.9	91.1	89.2	86.4	83.7	73.5	63.2
3150	84.8	86.8	88.8	88.7	88.5	88.2	88.0	88.0	88.2	88.5	88.8	89.1	89.4	87.6	85.7	82.9	80.2	70.0	59.7
4000	82.5	84.5	86.5	86.4	86.2	86.0	85.8	85.8	86.0	86.3	86.6	86.9	87.2	85.4	83.5	80.7	78.0	67.8	57.5
5100	77.6	79.6	81.6	81.5	81.3	81.1	80.9	80.9	81.1	81.4	81.7	82.0	82.3	80.5	78.6	75.8	73.1	62.9	52.6
6300	72.5	74.5	76.5	76.4	76.2	76.0	75.8	75.8	76.0	76.3	76.6	76.9	77.2	75.4	73.5	70.7	68.0	57.8	47.5
8000	67.3	69.3	71.3	71.2	71.0	70.8	70.6	70.6	70.8	71.1	71.4	71.7	72.0	70.2	68.3	65.5	62.8	52.6	42.3
10000	62.0	64.0	66.0	65.9	65.7	65.5	65.3	65.3	65.5	65.8	66.1	66.4	66.7	64.9	63.0	60.2	57.5	47.3	37.0
12000	57.6	59.6	61.6	61.5	61.3	61.1	60.9	60.9	61.1	61.4	61.7	62.0	62.3	60.5	58.6	55.8	53.1	42.9	32.6
15000	52.5	54.5	56.5	56.4	56.2	56.0	55.8	55.8	56.0	56.3	56.6	56.9	57.2	55.4	53.5	50.7	48.0	37.8	27.5
20000	48.3	50.3	52.3	52.2	52.0	51.8	51.6	51.6	51.8	52.1	52.4	52.7	53.0	51.2	49.3	46.5	43.8	33.6	23.3
25000	43.3	45.3	47.3	47.2	47.0	46.8	46.6	46.6	46.8	47.1	47.4	47.7	48.0	46.2	44.3	41.5	38.8	28.6	18.3
30000	38.3	40.3	42.3	42.2	42.0	41.8	41.6	41.6	41.8	42.1	42.4	42.7	43.0	41.2	39.3	36.5	33.8	23.6	13.3

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATIONS:
 OMEGA 8.2
 TEST 74-004-037
 RUN 05
 AIRCRAFT CODE 023
 OPERATION CODE 22010
 PROFILE VERSION A
 25 FEB 76
 PAGE J5

METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB

OPERATION:
 MAXIMUM POWER
 ONE RECIP PLUS ONE JET

NOISE SOURCE/SUBJECT:
 AC-123K AIRCRAFT
 ENGS R-2800-93W, J85-17TJ
 GROUND RUNUP

ANGLE IN DEGREES	P=PNLT										T=ALT									
	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT:																		
AC-123K AIRCRAFT																		
ENGS R-2800-99M, J85-17TJ																		
GROUND RUNUP																		
IDENTIFICATION:																		
OMEGA 8.2																		
TEST 74-064-037																		
METEOROLOGY:																		
TEMP = 59 F																		
BAR PRESS = 29.92 IN HG																		
REL HUMID = 73 %																		
DELTA N = -3.0 DB																		
AIRCRAFT CODE 023																		
OPERATION CODE 02010																		
PROFILE VERSION A																		
25 FEB 76																		
PAGE 65																		
ANGLE (DEGREES)																		
DISTANCE (FEET)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170 >180
200	103.9	105.4	107.5	107.2	107.0	106.4	105.8	105.0	106.1	106.4	107.2	108.5	110.4	109.4	107.8	105.4	103.3	83.3
250	101.7	103.3	105.3	105.1	104.9	104.2	103.7	103.6	104.0	104.3	105.0	106.4	108.3	107.3	105.7	103.3	101.2	81.2
315	98.5	101.1	103.2	102.9	102.7	102.0	101.5	101.4	101.7	102.0	102.8	104.2	106.1	105.2	103.6	101.2	99.1	79.1
400	97.3	98.9	101.0	100.7	100.4	99.8	99.3	99.2	99.5	99.8	100.6	102.0	104.0	103.0	101.4	99.1	97.0	77.0
500	94.9	96.6	98.7	98.4	98.1	97.4	97.0	96.9	97.1	97.5	98.2	99.7	101.7	100.8	99.3	96.9	94.8	74.8
630	92.6	94.2	96.4	96.1	95.7	95.0	94.6	94.5	94.7	95.1	95.8	97.3	99.4	98.5	97.0	94.6	92.6	72.6
800	90.1	91.8	94.1	93.7	93.3	92.6	92.2	92.0	92.3	92.6	93.3	94.9	97.0	96.2	94.7	92.4	90.3	70.3
1000	87.6	89.3	91.6	91.2	90.8	90.1	89.7	89.5	89.7	90.0	90.7	92.4	94.6	93.8	92.4	90.0	88.0	68.0
1250	84.9	86.7	89.1	88.6	88.1	87.4	87.0	86.9	87.1	87.3	88.0	89.7	92.0	91.3	89.9	87.6	85.5	65.5
1600	82.2	84.0	86.5	85.9	85.4	84.7	84.3	84.1	84.3	84.5	85.1	87.0	89.3	88.8	87.4	85.0	82.9	62.3
2000	79.3	81.2	83.8	83.1	82.6	81.9	81.5	81.3	81.5	81.6	82.2	84.1	86.6	86.1	84.8	82.4	80.2	60.2
2500	76.2	78.1	80.7	80.0	79.4	78.7	78.3	78.1	78.3	78.4	78.9	80.9	83.5	83.1	81.8	79.4	77.3	57.3
3150	72.8	74.9	77.1	76.5	75.8	75.2	74.9	74.7	74.9	74.9	75.3	77.4	80.1	79.7	78.4	76.1	74.0	54.0
4000	68.8	70.5	72.9	72.3	71.7	71.1	70.8	70.7	70.9	70.9	71.2	73.4	76.0	75.7	74.7	72.4	70.2	50.2
5000	64.5	66.0	68.3	67.6	67.1	66.6	66.3	66.2	66.5	66.5	66.8	68.9	71.6	71.3	70.5	68.2	66.0	46.0
6300	59.8	61.2	63.4	62.8	62.2	61.8	61.5	61.5	61.9	61.3	62.0	64.2	66.8	66.6	66.1	63.8	61.5	41.5
8000	55.4	56.9	59.4	58.6	57.9	57.6	57.4	57.3	57.6	57.6	57.8	60.3	62.6	62.6	62.4	60.1	57.6	37.6
10000	50.7	52.3	55.1	54.2	53.4	53.1	52.9	52.8	53.1	53.1	53.4	55.6	58.1	58.4	58.5	56.1	53.4	33.4
12500	45.9	47.8	50.9	49.8	48.9	48.6	48.5	48.3	48.5	48.5	48.9	51.2	53.7	54.1	54.2	51.7	48.9	28.9
16000	40.8	43.0	46.3	45.2	44.2	43.9	43.7	43.4	43.5	43.7	44.3	46.5	48.9	49.3	49.5	46.9	44.0	24.0
20000	35.3	37.8	41.3	40.2	39.1	38.8	38.6	38.2	38.1	38.5	39.4	41.5	43.7	44.1	44.3	41.7	38.6	18.6
25000	29.7	32.3	35.9	34.8	33.7	33.3	33.1	32.5	32.4	33.0	34.4	36.3	38.2	38.5	38.6	35.9	32.7	12.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	30	40	50	60	70	80	90	100	MEAN	SD
50	66.6	.
63	93.6	.
80	X	88.6	.
100	76.6	.
125	75.6	.
150	77.6	.
200	76.6	.
250	75.6	.
315	76.6	.
400	77.6	.
500	75.6	.
630	75.6	.
800	75.6	.
1000	74.6	.
1250	72.6	.
1600	70.6	.
2000	67.6	.
2500	66.6	.
3150	67.6	.
4000	65.6	.
5000	59.6	.
6300	53.6	.
8000	47.6	.
10000	39.6	.

F R E Q U E N C Y

I N H Z

C-130A,D TAKEOFF POWER 970 C TIT 16000 IN-LES

AIR SPEED = 170 KNOTS TEMP = 59 F PNLT = 97.3 PND8

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 97.3 PND8

NO. OF RECORDS = 1 IDENT: 6.6-520-103-211276 ALT = 63.3 DBA

AL = 83.3 DBA

TABLE 1
SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATIONS:	TAKEOFF POWER	970 C TIT	16000 IN-Lbs	METEOROLOGY:	TEMP	REL HUMID	DELTA N	IDENTIFICATION:
C-13A,D	AIRSPD = 170 KNOTS					= 59 F	= 70 %	0.0 DB	OMEGA 6.6
									A/C CODE: 520
									OPS CODE: 103
									PROFILE VER: A
									21 DEC 76
									PAGE 11
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)		
200	98.9	98.9	113.1	113.1	97.9	97.9	104.1		
250	96.7	96.7	111.0	111.0	96.8	96.8	102.9		
315	94.6	94.6	108.8	108.8	95.7	95.7	101.8		
400	92.4	92.4	106.6	106.6	94.5	94.5	100.6		
500	90.2	90.2	104.4	104.4	93.3	93.3	99.3		
630	87.9	87.9	102.1	102.1	92.0	92.0	98.0		
800	85.6	85.6	99.7	99.7	90.7	90.7	96.7		
1000	83.3	83.3	97.3	97.3	89.4	89.4	95.3		
1250	80.9	80.9	94.9	94.9	88.0	88.0	93.8		
1600	78.4	78.4	92.3	92.3	86.5	86.5	92.3		
2000	75.9	75.9	89.7	89.7	85.0	85.0	90.7		
2500	73.3	73.3	87.0	87.0	83.4	83.4	89.0		
3150	70.6	70.6	84.0	84.0	81.7	81.7	87.0		
4000	67.9	67.9	80.9	80.9	80.0	80.0	84.9		
5000	65.0	65.0	77.7	77.7	78.1	78.1	82.7		
6300	62.0	62.0	74.5	74.5	76.1	76.1	80.5		
8000	58.8	58.8	71.1	71.1	73.9	73.9	78.1		
10000	55.6	55.6	67.7	67.7	71.7	71.7	75.6		
12500	52.3	52.3	64.1	64.1	69.4	69.4	73.1		
16000	48.9	48.9	60.4	60.4	67.0	67.0	70.3		
20000	45.0	45.6	56.5	56.5	64.7	64.7	67.4		
25000	42.2	42.2	52.3	52.3	62.3	62.3	64.2		

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																						
AIR-TO-GROUND PROPAGATION																								
AIRCRAFT:																								
C-130A,D																								
970 C TIT 16000 IN-LBS																								
AIRSPEED = 170 KNOTS																								
DELTA N = 0.0 DB																								
PAGE 41																								
METEOROLOGY:																								
TEMP = 59 F																								
REL HUMID = 70 %																								
A/C CODE: 520																								
OPS CODE: 103																								
PROFILE VER: A																								
21 DEC 76																								
OMEGA 5.6																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)																								
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	81	108	103	91	90	92	91	90	91	92	90	90	91	90	88	87	84	84	86	86	81	78	76	75
250	79	106	101	89	88	90	89	88	89	90	88	88	88	88	86	84	82	82	84	83	78	75	73	72
315	77	104	99	87	86	88	87	86	87	88	86	86	86	86	84	82	80	79	81	81	76	72	70	68
400	75	102	97	85	84	86	85	84	85	86	84	84	84	83	82	80	77	77	79	78	73	69	67	64
500	73	100	95	83	82	84	83	82	83	84	82	82	82	81	80	78	75	75	76	75	70	66	63	59
630	71	98	93	81	80	82	81	80	81	82	80	80	80	79	77	75	73	72	74	72	67	62	58	54
800	69	96	91	79	78	80	79	78	79	80	78	78	78	77	75	73	70	69	71	69	63	58	53	47
1000	67	94	89	77	76	78	77	76	77	78	76	76	76	75	73	71	68	67	68	66	60	54	48	40
1250	65	92	87	75	74	76	75	74	74	75	73	73	73	72	70	68	65	64	64	62	55	48	41	31
1600	63	90	85	73	71	73	72	71	72	73	71	71	71	70	68	65	62	60	60	57	50	42	33	20
2000	61	88	82	70	69	71	70	69	70	71	69	68	68	67	65	62	59	57	56	52	45	35	23	7
2500	58	85	80	68	67	69	68	67	68	69	66	66	66	64	62	59	55	53	51	40	38	26	12	
3150	56	83	78	66	65	67	66	65	66	66	64	64	63	61	59	55	51	48	46	39	30	16		
4000	54	81	76	64	63	65	64	63	63	64	61	61	60	58	55	51	47	43	39	31	21	4		
5000	52	79	74	62	61	63	61	60	61	61	59	58	57	55	51	47	41	36	32	21	9			
6300	50	77	72	60	59	60	59	58	58	59	56	55	53	51	47	42	35	29	23	9				
8000	48	75	70	58	56	58	57	55	55	56	53	51	49	46	42	36	28	21	12					
10000	46	73	68	55	54	56	54	52	53	52	49	47	45	41	36	29	20	10						
12500	44	71	65	53	52	53	51	49	49	49	45	43	40	36	29	21	10							
16000	42	68	63	51	49	50	48	46	46	45	41	38	34	29	21	11								
20000	39	66	61	48	46	47	45	43	42	41	36	32	27	21	12									
25000	37	63	58	45	43	44	42	39	38	36	30	25	19	11										

	30	40	50	60	70	80	90	100	110	
200	C-130A,0 TAKEOFF POWER									
250	970 C TIT 16800 IN-LBS									
315	AIRSPEED = 170 KNOTS									
400	TEMP = 59 F REL HUMID = 70 %									
500	DELTA N = 0.0 DB									
630	NO. OF RECORDS: 1									
800	IDENT: 6.6-520-103-211276-A									
1000										
1250										
1600										
2000										
2500										
3150										
4000										
5000										
6300										
8000										
10000										
12500										
16000										
20000										
25000										

[illegible]

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:									
(OPERATIONS:) METEOROLOGY:									
(TAKEOFF POWER) TEMP = 59 F									
(970 G ALT 16000 IN-LBS) REL HUMID = 70 %									
(AIRSPEED = 170 KNOTS) DELTA N = 0.0 DB									
(OMEGA 5.0)									
(A/C CODE: 520)									
(OPS CODE: 103)									
(PROFILE VER: A)									
(21 DEC 76)									
(PAGE 01)									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PN (EPNDB)	PNLT** (PNDB)	SEL (DB)	SEL** (DB)	CPNL** (EPNDB)		
200	93.9	93.9	100.1	100.1	92.9	92.9	99.1		
250	91.7	91.7	100.9	100.9	91.6	91.6	98.3		
315	89.6	89.6	103.8	103.8	89.7	89.7	96.7		
400	87.4	87.4	101.6	101.6	87.5	87.5	95.5		
500	85.2	85.2	99.7	99.7	85.3	85.3	94.3		
630	82.9	82.9	96.5	96.5	82.0	82.0	92.9		
800	80.6	80.6	94.5	94.5	80.7	80.7	91.4		
1000	78.2	78.2	91.9	91.9	84.3	84.3	89.9		
1250	75.7	75.7	89.2	89.2	82.8	82.8	88.1		
1600	73.1	73.1	85.6	85.6	81.2	81.2	85.5		
2000	70.4	70.4	81.6	81.6	79.5	79.5	82.5		
2500	67.4	67.4	77.4	77.4	77.5	77.5	79.4		
3150	64.1	64.1	73.2	73.2	75.2	75.2	76.1		
4000	60.5	60.5	68.7	68.7	72.6	72.6	72.6		
5000	56.5	56.5	63.9	63.9	69.6	69.6	68.9		
6300	52.2	52.2	58.7	58.7	66.3	66.3	64.7		
8000	48.2	48.2	54.2	54.2	63.3	63.3	61.2		
10000	43.9	43.9	49.1	49.1	60.0	60.0	57.1		
12500	39.3	39.3	43.5	43.5	56.4	56.4	52.5		
16000	34.2	34.2	37.1	37.1	52.3	52.3	47.9		
20000	29.0	29.0	29.1	29.1	48.1	48.1	40.1		
25000	23.7	23.7	17.0	17.0	43.8	43.8	29.0		
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1									
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000
S																						
L																						
A																						
N																						
T																						
J																						
I																						
S																						
T																						
A																						
N																						
C																						
E																						
I																						
N																						
F																						
E																						
E																						
T																						
10000																						
12500																						
16000																						
20000																						
25000																						

C-130A,0 TAKEOFF POWER
 970 C TIT 16800 IN-LBS
 AIRSPEED = 170 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 1
 IDENT: 6.6-520-103-211276-A

NOISE LEVEL IN DB
 20 30 40 50 60 70 80 90 100

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																								OMEGA 6.6	
(OPERATIONS:) METEOROLOGY:																									
(APPROACH POWER) TEMP = 59 F																									
(580 U TIT 4000 IN-LBS) REL HUMID = 70 %																									
(AIRSPEED = 140 KNOTS) DELTA N = 0.0 DB																									
PAGE M2																									
C-130A,D																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	73	94	97	91	91	87	89	86	85	88	86	89	87	88	88	87	87	86	86	86	86	81	79	77	74
250	71	92	95	89	89	85	87	84	84	86	84	87	84	86	86	84	85	84	84	84	83	78	76	74	71
315	69	90	93	87	87	83	85	82	82	84	82	85	82	84	84	82	83	81	81	81	81	76	73	71	67
400	67	88	91	85	85	81	83	80	80	82	80	83	80	81	82	80	80	79	79	79	78	73	70	68	63
500	65	86	89	83	83	79	81	78	78	80	78	81	78	79	80	78	78	77	76	75	75	70	67	64	58
630	63	84	87	81	81	77	79	76	76	78	76	73	70	77	77	75	76	74	74	74	72	67	63	59	53
800	61	82	85	79	79	75	77	74	74	76	74	77	74	75	75	73	73	71	71	71	69	63	59	54	46
1000	59	80	83	77	77	73	75	72	72	74	72	75	72	73	73	71	71	69	68	66	60	55	49	39	
1250	57	78	81	75	75	71	73	70	69	71	69	72	69	70	70	68	68	66	64	62	55	49	42	30	
1600	55	76	79	73	72	68	70	67	67	69	67	70	67	68	68	65	65	62	60	57	50	43	34	19	
2000	53	74	76	70	70	66	68	65	65	67	65	68	64	65	65	62	62	59	56	52	45	36	24	6	
2500	50	71	74	68	68	64	66	63	63	65	62	65	62	62	62	59	58	55	51	46	38	27	13		
3150	48	69	72	66	66	62	64	61	61	62	60	63	59	59	59	55	54	50	46	39	30	17			
4000	46	67	70	64	64	60	62	59	58	60	57	60	56	56	55	51	50	45	39	31	21	5			
5000	44	65	68	62	62	58	59	56	56	57	55	57	53	53	51	47	44	38	32	21	9				
6300	42	63	66	60	60	55	57	54	53	55	52	54	49	49	47	42	38	31	23	9					
8000	40	61	64	58	57	53	55	51	50	52	49	50	45	44	42	36	31	23	12						
10000	38	59	62	55	55	51	52	48	48	48	45	46	41	39	36	29	23	12							
12500	36	57	59	53	53	48	49	45	44	45	41	42	36	34	29	21	13	0							
16000	34	54	57	51	50	45	45	42	41	41	37	37	30	27	21	11	1								
20000	31	52	55	48	47	42	43	39	37	37	32	31	23	19	12										
25000	29	49	52	45	44	39	40	35	33	32	26	24	15	9											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	580 C TIT	4000 IN-LBS	TEMP	REL HUMID	DELTA N	0.0 DB	IDENTIFICATION:
C-13JA,D					59 F	70 %			OMEGA 6.6
									A/C CODE: 520
									OPS CODE: 195
									PROFILE VER: A
									21 DEC 76
									PAGE 12
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	97.8	98.8	111.8	112.8	96.4	96.4	101.7		
250	95.6	96.6	109.6	110.6	95.2	95.2	100.5		
315	93.4	94.4	107.3	108.3	94.0	94.0	99.2		
400	91.2	92.2	105.0	106.0	92.8	92.8	97.9		
500	88.9	89.9	102.5	103.5	91.5	91.5	96.5		
630	86.6	87.6	100.0	101.0	90.2	90.2	94.9		
800	84.2	85.2	97.3	98.3	88.8	88.8	93.2		
1000	81.7	82.7	94.5	95.5	87.3	87.3	91.4		
1250	79.2	80.2	91.7	92.7	85.8	85.8	89.6		
1600	76.6	77.6	88.7	89.7	84.2	84.2	87.5		
2000	73.9	74.9	85.6	86.6	82.4	82.4	85.5		
2500	71.1	72.1	82.3	83.3	80.6	80.6	83.2		
3150	68.2	69.2	79.0	80.0	78.7	78.7	80.9		
4000	65.1	65.9	75.7	76.5	76.7	76.7	78.7		
5000	62.0	62.6	72.5	73.1	74.5	74.5	76.4		
6300	58.7	59.1	69.0	69.4	72.3	72.3	74.0		
8000	55.3	55.5	65.5	65.7	69.9	69.9	71.4		
10000	51.8	51.8	61.7	61.7	67.4	67.4	68.6		
12500	48.2	48.2	57.6	57.6	64.8	64.8	65.5		
16000	44.5	44.5	53.2	53.2	62.1	62.1	62.1		
20000	40.8	40.8	48.5	48.5	59.4	59.4	58.4		
25000	37.0	37.0	43.1	43.1	56.6	56.6	54.0		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	C-130A,D APPROACH POWER										A+										*P									
250	580 C TIT 4000 IN-LBS										A+										*P									
315	AIRSPEED = 140 KNOTS										A+										*P									
400	TEMP = 59 F REL HUMID = 70 %										A+										*P									
500	DELTA N = 0.0 DB										A+										*P									
630	NO. OF RECORDS: 1										A+										*P									
800	IDENT: 6.6-520-105-211276-A										A+										*P									
1000											A+										*P									
1250											A+										*P									
1500											A+										*P									
1750											A+										*P									
2000											A+										*P									
2250											A+										*P									
2500											A+										*P									
2750											A+										*P									
3000											A+										*P									
3250											A+										*P									
3500											A+										*P									
3750											A+										*P									
4000											A+										*P									
4250											A+										*P									
4500											A+										*P									
4750											A+										*P									
5000											A+										*P									
5250											A+										*P									
5500											A+										*P									
5750											A+										*P									
6000											A+										*P									
6250											A+										*P									
6500											A+										*P									
6750											A+										*P									
7000											A+										*P									
7250											A+										*P									
7500											A+										*P									
7750											A+										*P									
8000											A+										*P									
8250											A+										*P									
8500											A+										*P									
8750											A+										*P									
9000											A+										*P									
9250											A+										*P									
9500											A+										*P									
9750											A+										*P									
10000											A+										*P									
10250											A+										*P									
10500											A+										*P									
10750											A+										*P									
11000											A+										*P									
11250											A+										*P									
11500											A+										*P									
11750											A+										*P									
12000											A+										*P									
12250											A+										*P									
12500											A+										*P									
12750											A+										*P									
13000											A+										*P									
13250											A+										*P									
13500											A+										*P									
13750											A+										*P									
14000											A+										*P									
14250											A+										*P									
14500											A+										*P									
14750											A+										*P									
15000											A+										*P									
15250											A+										*P									
15500											A+										*P									
15750											A+										*P									
16000											A+										*P									
16250											A+										*P									
16500											A+										*P									
16750											A+										*P									
17000											A+										*P									
17250											A+										*P									
17500											A+										*P									
17750											A+										*P									
18000											A+										*P									
18250											A+										*P									
18500											A+										*P									
18750											A+										*P									
19000											A+										*P									
19250											A+										*P									

[illegible]

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	4000 IN-LBS	TEMP	REL HUMID	DELTA N	SELT**	SEL	EPNL**
C-130A,D	580 C III	4000	4000	59 F	70 %	0.0 03	(DB)	(DB)	(EPND)
	AIR SPEED = 140 KNOTS								
SLANT DISTANCE (FEET)	AL (DB)	ALI** (DB)	PNL (PNDB)	PNLI** (PNDB)	SEL (DB)	SELT** (DB)	SEL	EPNL** (EPND)	IDENTIFICATION:
200	92.0	93.8	106.8	107.8	91.4	91.4	91.4	96.7	UMCGA 6.6
250	90.6	91.6	104.6	105.6	90.2	90.2	90.2	95.5	A/C CODE: 520
315	88.4	89.4	102.3	103.3	89.0	89.0	89.0	94.2	OPS CODE: 105
400	86.2	87.2	99.9	100.9	87.8	87.8	87.8	92.8	PROFILE VER: A
500	83.9	84.9	97.4	98.4	86.5	86.5	86.5	91.3	21 DEC 76
600	81.5	82.5	94.8	95.8	85.1	85.1	85.1	89.7	PAGE M2
	79.1	80.1	92.0	93.0	83.7	83.7	83.7	87.9	
1000	76.0	77.6	89.0	90.0	82.2	82.2	82.2	85.9	
1250	74.0	75.0	87.9	88.9	80.6	80.6	80.6	83.9	
1600	71.3	72.3	82.7	83.7	78.9	78.9	78.9	81.6	
2000	68.5	69.5	79.2	80.2	77.1	77.1	77.1	79.1	
2500	65.5	66.5	75.3	76.3	75.1	75.1	75.1	76.3	
3150	62.2	63.2	71.3	72.3	72.8	72.8	72.8	73.2	
4000	58.6	59.4	66.8	67.6	70.2	70.2	70.2	69.7	
5000	54.5	55.1	61.8	62.4	67.1	67.1	67.1	65.7	
6300	50.2	50.6	56.5	56.9	63.7	63.7	63.7	61.4	
8000	46.0	46.2	51.9	52.1	60.6	60.6	60.6	57.6	
10000	41.5	41.5	46.4	46.4	57.0	57.0	57.0	53.3	
12500	36.6	36.6	39.7	39.7	53.2	53.2	53.2	47.6	
16000	31.3	31.3	32.9	32.9	48.8	48.8	48.8	41.9	
20000	25.5	25.5	23.3	23.3	44.1	44.1	44.1	33.2	
25000	19.4	19.4	7.4	7.4	39.0	39.0	39.0	18.3	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	C-130A,D APPROACH POWER										A+										P									
250	580 C TIT 4000 IN-LBS										. . . . .										. . . . .
315	AIRSPEED = 140 KNOTS										. . . . .										. . . . .
400	TEMP = 59 F REL HUMID = 70 %										. . . . .										. . . . .
500	DELTA N = 0.0 DB										. . . . .										. . . . .
630	NO. OF RECORDS: 1										. . . . .										. . . . .
800	IDENT: 6.6-520-105-211276-A										. . . . .										. . . . .
1000											. . . . .										. . . . .
1250											. . . . .										. . . . .
1600											. . . . .										. . . . .
2000											. . . . .										. . . . .
2500											. . . . .										. . . . .
3150											. . . . .										. . . . .
4000											. . . . .										. . . . .
5000											. . . . .										. . . . .
6300											. . . . .										. . . . .
8000											. . . . .										. . . . .
10000											. . . . .										. . . . .
12500											. . . . .										. . . . .
16000											. . . . .										. . . . .
20000											. . . . .										. . . . .
25000											. . . . .										. . . . .
30000											. . . . .										. . . . .
35000											. . . . .										. . . . .
40000											. . . . .										. . . . .
45000											. . . . .										. . . . .
50000											. . . . .										. . . . .
55000											. . . . .										. . . . .
60000											. . . . .										. . . . .
65000											. . . . .										. . . . .
70000											. . . . .										. . . . .
75000											. . . . .										. . . . .
80000											. . . . .										. . . . .
85000											. . . . .										. . . . .
90000											. . . . .										. . . . .
95000											. . . . .										. . . . .
100000											. . . . .										. . . . .
105000											. . . . .										. . . . .
110000											. . . . .										. . . . .
115000											. . . . .										. . . . .
120000											. . . . .										. . . . .
125000											. . . . .										. . . . .
130000											. . . . .										. . . . .
135000											. . . . .										. . . . .
140000											. . . . .										. . . . .
145000											. . . . .										. . . . .
150000											. . . . .										. . . . .
155000											. . . . .										. . . . .
160000											. . . . .										. . . . .
165000											. . . . .										. . . . .
170000											. . . . .										. . . . .
175000											. . . . .										. . . . .
180000											. . . . .										. . . . .
185000											. . . . .										. . . . .
190000											. . . . .										. . . . .
195000											. . . . .										. . . . .
200000											. . . . .										. . . . .
205000											. . . . .										. . . . .
210000											. . . . .										. . . . .
215000											. . . . .										. . . . .
220000											. . . . .										. . . . .
225000											. . . . .										. . . . .
230000											. . . . .										. . . . .
235000											. . . . .										. . . . .
240000											. . . . .										. . . . .
245000											. . . . .										. . . . .
250000											. . . . .										. . . . .
255000											. . . . .										. . . . .
260000											. . . . .										. . . . .
265000											. . . . .										. . . . .
270000											. . . . .										. . . . .
275000											. . . . .										. . . . .
280000											. . . . .										. . . . .
285000											. . . . .										. . . . .
290000											. . . . .										. . . . .
295000											. . . . .										. . . . .
300000											. . . . .										. . . . .
305000											. . . . .										. . . . .
310000											. . . . .										. . . . .
315000											. . . . .										. . . . .
320000											. . . . .										. . . . .
325000											. . . . .										. . . . .
330000											. . . . .										. . . . .
335000											. . . . .										. . . . .
340000											. . . . .										. . . . .
345000											. . . . .										. . . . .
350000											. . . . .										. . . . .
355000											. . . . .										. . . . .
360000											. . . . .										. . . . .
365000											. . . . .										. . . . .
370000											. . . . .										. . . . .
375000											. . . . .										. . . . .
380000											. . . . .										. . . . .
385000											. . . . .										. . . . .
390000											. . . . .										. . . . .
395000											. . . . .										. . . . .
400000											. . . . .										. . . . .
405000											. . . . .										. . . . .
410000											. . . . .										. . . . .
415000											. . . . .										. . . . .
420000											. . . . .										. . . . .
425000											. . . . .										. . . . .
430000											. . . . .										. . . . .
435000											. . . . .										. . . . .
440000											. . . . .										. . . . .
445000											. . . . .										. . . . .
450000											. . . . .										. . . . .
455000											. . . . .										. . . . .
460000											. . . . .										. . . . .
465000											. . . . .										. . . . .
470000											. . . . .										. . . . .
475000											. . . . .										. . . . .
480000											. . . . .										. . . . .
485000											. . . . .										. . . . .
490000											. . . . .										. . . . .
495000											. . . . .										. . . . .
500000											. . . . .										. . . . .
505000											. . . . .										. . . . .
510000											. . . . .										. . . . .
515000											. . . . .										. . . . .
520000											. . . . .										. . . . .
525000											. . . . .										. . . . .
530000											. . . . .										. . . . .
535000											. . . . .										. . . . .
540000											. . . . .										. . . . .
545000											. . . . .										. . . . .
550000											. . . . .										. . . . .
555000											. . . . .										. . . . .
560000											. . . . .										. . . . .
565000											. . . . .										. . . . .
570000											. . . . .										. . . . .
575000											. . . . .										. . . . .
580000											. . . . .										. . . . .
585000											. . . . .										. . . . .
590000											. . . . .										. . . . .
595000											. . . . .										. . . . .
600000											. . . . .										. . . . .
605000											. . . . .										. . . . .
610000											. . . . .										. . . . .
615000											. . . . .										. . . . .
620000											. . . . .										. . . . .
625000											. . . . .										. . . . .
630000											. . . . .										. . . . .
635000											. . . . .										. . . . .
640000											. . . . .										. . . . .
645000											. . . . .										. . . . .
650000											. . . . .										. . . . .
655000											. . . . .										. . . . .
660000											. . . . .										. . . . .
665000											. . . . .										. . . . .
670000											. . . . .										. . . . .
675000											. . . . .										. . . . .
680000											. . . . .										. . . . .
685000											. . . . .										. . . . .
690000											. . . . .										. . . . .
695000											. . . . .										. . . . .
700000											. . . . .										. . . . .
705000											. . . . .										. . . . .
710000											. . . . .										. . . . .
715000											. . . . .										. . . . .
720000											. . . . .										. . . . .
725000											. . . . .										. . . . .
730000											. . . . .										. . . . .
735000											. . . . .										. . . . .
740000											. . . . .										. . . . .
745000											. . . . .										. . . . .
750000											. . . . .										. . . . .
755000											. . . . .										. . . . .
760000											. . . . .										. . . . .
765000											. . . . .										. . . . .
770000											. . . . .										. . . . .
775000											. . . . .										. . . . .
780000											. . . . .										. . . . .
785000											. . . . .										. . . . .
790000											. . . . .										. . . . .
795000											. . . . .										. . . . .
800000											. . . . .										. . . . .
805000											. . . . .										. . . . .
810000											. . . . .										. . . . .
815000											. . . . .										. . . . .
820000											. . . . .										. . . . .
825000											. . . . .										. . . . .
830000											. . . . .										. . . . .
835000											. . . . .										. . . . .
840000											. . . . .										. . . . .
845000											. . . . .										. . . . .
850000											. . . . .										. . . . .
855000											. . . . .										. . . . .
860000											. . . . .										. . . . .
865000											. . . . .										. . . . .
870000											. . . . .										. . . . .
875000											. . . . .										. . . . .
880000											. . . . .										. . . . .
885000											. . . . .										. . . . .
890000											. . . . .										. . . . .
895000											. . . . .										. . . . .
900000											. . . . .										. . . . .
905000											. . . . .										. . . . .
910000											. . . . .										. . . . .
915000											. . . . .										. . . . .
920000											. . . . .										. . . . .
925000											. . . . .										. . . . .
930000											. . . . .										. . . . .
935000											. . . . .										. . . . .
940000											. . . . .										. . . . .
945000											. . . . .										. . . . .
950000											. . . . .										. . . . .
955000											. . . . .										. . . . .
960000											. . . . .										. . . . .
965000											. . . . .										. . . . .
970000											. . . . .										. . . . .
975000											. . . . .										. . . . .
980000											. . . . .										. . . . .
985000											. . . . .										. . . . .
990000											. . . . .										. . . . .
995000											. . . . .										. . . . .
1000000											. . . . .										. . . . .
1005000											. . . . .										. . . . .
1010000											. . . . .										. . . . .
1015000											. . . . .										. . . . .
1020000											. . . . .										. . . . .
1025000											. . . . .										. . . . .
1030000											. . . . .										. . . . .
1035000											. . . . .										. . . . .
1040000											. . . . .										. . . . .
1045000											. . . . .										. . . . .
1050000											. . . . .										. . . . .
1055000											. . . . .										. . . . .
1060000											. . . . .										. . . . .
1065000											. . . . .										. . . . .
1070000											. . . . .										. . . . .
1075000											. . . . .										. . . . .
1080000											. . . . .										. . . . .
1085000											. . . . .										. . . . .
1090000											. . . . .										. . . . .
1095000											. . . . .										. . . . .
1100000											. . . . .										. . . . .
1105000											. . . . .										. . . . .
1110000											. . . . .										. . . . .
1115000											. . . . .										. . . . .
1120000											. . . . .										. . . . .
1125000																													

	20	30	40	50	60	70	80	90	100
200	(((((((((
	C-130A,D	APPROACH POWER							
250	(((((((((
	500 G TIT	4000 IN-LBS							
315	(((((((((
	AIR SPEED = 140 KNOTS								
400	(((((((((
	TEMP = 59 F	REL HUMID = 70 %							
500	(((((((((
	DELTA N = 0.0 DB								
	NO. OF RECORDS: 1								
	IDENT: 6.6-520-105-211276-A								
S 630	(((((((((
L 800	(((((((((
A 1000	(((((((((
T 1250	(((((((((
D 1600	(((((((((
I 2000	(((((((((
S 2500	(((((((((
T 3150	(((((((((
A 4000	(((((((((
N 5000	(((((((((
E 6300	(((((((((
I 8000	(((((((((
N 10000	(((((((((
F 12500	(((((((((
E 16000	(((((((((
I 20000	(((((((((
25000	(((((((((

[illegible]

AE ONCCTD IN NO (33)NCO#D 351CN

C-133A, 0 AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 76-52J-001
AIRCRAFT CODE: 526
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA

**POWERS SETTING
SHIELDS AHEAD**

LOA	IDLE	900 IN-LBS.	62 $\frac{1}{2}$ C TIT.	650 LBS/Hr.	. . . . .	393-339
	IDLE	1400 IN-LBS.	580 C TIT.	780 LBS/Hr.	. . . . .	395-404
	POWER PUMP	3600 IN-LBS.	77 $\frac{1}{2}$ C TIT.	1400 LBS/Hr.	. . . . .	409-.10
	TAVEOFF	1800 IN-LBS.	970 C TIT.	2000 LBS/Hr.	. . . . .	411--1

FOR EACH POWER SETTING. THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

13 DEC 76

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

USAF
JSAF C-130A,U AIRCRAFT
JSAF C-130A,U AIRCRAFT
JSAF C-130A,U AIRCRAFT
JSAF C-130A,U AIRCRAFT
USAF USAF USAF USAF USAF

C-130A, 3 AIRCRAFT
C-130A, 3 AIRCRAFT
C-130A, 3 AIRCRAFT

C-130A, U AIRCRAFT
C-130A, O AIRCRAFT
C-130A, U AIRCRAFT

C-130A, 0 AIRCRAFT
C-130A, 0 AIRCRAFT
C-130A, 0 AIRCRAFT

[illegible]

TABLE 1		NORMALIZED SOUND PRESSURE LEVEL (DB)																IDENTIFICATION:			
		1/3 OCTAVE BAND																) OMEGA 8.2			
		DISTANCE = 250 FEET																) TEST 76-520-001			
																		) RUN 01			
																		) AIRCRAFT CODE 520			
																		) OPERATION CODE 04011			
																		) PROFILE VERSION A			
																		) 13 DEC 76			
																		) PAGE C1			

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130A, D AIRCRAFT																			
ENG. 156-A-9																			
GROUND RUNUP																			
(OPERATION:)																			
(C-130A, D)																			
(LOW IDLE)																			
(SINGLE ENGINE)																			
(800 IN-LBS)																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -0.4 DB																			
IDENTIFICATION:																			
GREG 8.2																			
TEST 76-320-001																			
RUN 01																			
AIRCRAFT CODE 52J																			
OPERATION CODE 04J11																			
PROFILE VERSION A																			
13 DEC 76																			
PAGE 01																			
ANGLE (DEGREES)																			
80 90 100 110 120 130 140 150 160 170 180																			
DISTANCE (FEET)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
250	106.3	105.6	105.1	104.5	103.5	103.0	101.2	99.1	98.0	103.2	100.1	100.9	101.7	102.5	101.6	99.7	95.1	93.2	92.2
250	103.9	103.3	103.7	102.1	101.2	100.6	98.9	96.8	96.3	98.0	97.8	93.5	93.5	100.2	99.2	96.3	92.7	90.8	89.8
315	101.5	100.9	101.3	99.7	98.7	98.2	96.5	94.4	93.9	95.8	95.6	96.1	96.9	97.8	96.8	94.1	90.2	88.3	87.3
400	99.0	98.3	98.7	97.2	96.2	95.7	94.0	91.9	91.6	93.5	93.3	93.0	94.4	95.2	94.3	91.8	87.8	85.7	85.0
500	96.3	95.6	96.0	94.5	93.5	93.0	91.4	89.5	89.2	91.1	90.9	90.9	92.1	92.7	91.5	89.4	85.4	83.2	82.5
630	93.4	92.9	93.1	91.6	90.7	90.1	88.5	86.9	86.6	88.7	88.5	88.2	89.6	90.2	89.0	86.9	82.9	80.7	80.1
800	90.4	89.7	90.0	88.5	87.0	87.0	85.5	84.0	83.7	85.9	85.5	85.4	86.8	87.3	86.4	84.3	80.3	78.1	77.5
1000	87.0	86.4	86.7	85.2	84.2	83.7	82.2	81.0	80.5	82.7	82.4	82.6	83.6	84.3	83.6	81.3	77.5	75.3	74.7
1250	83.4	82.7	83.0	81.6	80.6	80.1	78.6	77.0	76.6	79.2	78.9	79.6	80.4	81.3	80.4	78.4	74.3	72.3	71.5
1500	80.1	79.4	79.7	78.2	77.2	76.7	75.2	73.6	73.2	75.8	75.5	76.5	77.3	78.2	77.3	75.3	71.1	69.2	68.3
2000	76.8	76.1	76.4	74.9	73.9	73.4	71.9	70.3	70.0	72.6	72.3	73.3	74.0	74.9	74.1	72.1	67.9	66.0	65.0
2500	72.8	72.1	72.4	70.9	69.9	69.4	67.9	66.3	66.0	68.6	68.3	69.3	70.0	70.9	70.1	68.2	63.9	61.9	61.1
3150	69.3	68.6	68.9	67.4	66.4	65.9	64.4	62.8	62.5	65.1	64.8	65.8	66.5	67.4	66.6	64.6	59.2	57.2	56.4
4000	63.1	62.4	62.7	61.2	60.2	59.7	58.2	56.6	56.3	58.9	58.6	59.6	60.3	61.2	60.4	58.4	53.9	52.9	52.2
5000	57.4	56.7	57.0	55.5	54.5	54.0	52.5	50.9	50.6	53.2	52.9	53.9	54.6	55.5	54.7	52.7	48.4	47.5	46.6
6300	51.7	51.0	51.3	50.0	49.0	48.5	47.0	45.4	45.1	47.6	47.3	48.3	49.0	50.0	49.2	47.2	42.1	41.0	40.4
8000	47.2	46.5	46.8	45.5	44.5	44.0	42.5	40.9	40.6	43.2	42.9	43.9	44.6	45.5	44.7	42.7	37.6	36.6	35.8
10000	42.2	41.5	41.8	40.5	39.5	39.0	37.5	35.9	35.6	38.2	37.9	38.9	39.6	40.5	39.7	37.7	32.6	31.6	30.9
12500	35.3	34.6	34.9	33.6	32.6	32.1	30.6	29.0	28.7	31.3	31.0	32.0	32.7	33.6	32.8	30.8	25.7	24.7	24.0
15000	29.3	28.6	28.9	27.6	26.6	26.1	24.6	23.0	22.7	25.3	25.0	26.0	26.7	27.6	26.8	24.8	19.7	18.7	18.0
20000	21.4	20.7	21.0	19.7	18.7	18.2	16.7	15.1	14.8	17.4	17.1	18.1	18.8	19.7	18.9	16.9	11.8	10.8	10.1
25000	8.8	8.1	8.4	7.5	6.5	6.0	4.5	2.9	2.6	5.2	5.0	6.0	6.7	7.6	6.8	4.8	0.7	0.7	0.0

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130A,0 AIRCRAFT																			
ENG. T56-A-9																			
GROUND RUNUP																			
OPERATION:																			
C-130A,0																			
LOW IDLE																			
SINGLE ENGINE																			
800 IN-LBS																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA N = -6.4 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-520-001																			
RUN 01																			
AIRCRAFT CODE 520																			
OPERATION CODE 04011																			
PROFILE VERSION A																			
13 DEC 76																			
PAGE E1																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.5	107.8	109.3	107.2	106.3	106.0	103.0	100.4	100.4	101.7	101.7	102.1	103.1	103.7	103.1	99.8	96.4	94.5	93.6
250	106.1	105.4	106.9	104.9	103.9	103.6	100.7	98.1	97.7	99.5	99.3	99.7	100.7	101.4	100.8	97.5	94.0	92.1	91.2
315	103.7	103.0	104.5	102.5	101.5	101.2	98.3	95.7	95.3	97.3	97.1	97.3	98.3	98.9	98.3	95.2	91.5	89.6	88.7
400	101.2	100.5	102.0	99.9	99.0	98.7	95.8	93.2	93.0	95.0	94.8	94.8	95.8	96.4	95.8	92.9	89.1	87.0	86.4
500	98.5	97.8	99.3	97.3	96.3	96.0	93.2	90.8	90.6	92.6	92.5	92.1	93.5	93.8	93.1	90.5	86.7	84.5	83.9
630	95.6	94.9	96.4	94.4	93.4	93.1	90.3	88.2	88.0	90.2	90.0	89.4	91.3	91.4	90.5	88.0	84.2	82.0	81.4
800	92.6	91.8	93.3	91.3	90.4	90.0	87.3	85.3	85.1	87.4	87.1	86.6	88.2	88.5	87.9	85.4	81.6	79.4	78.8
1000	89.2	88.5	89.9	88.0	87.0	86.7	84.0	82.3	81.9	84.2	83.9	83.8	85.0	85.5	85.1	82.7	78.8	76.6	76.1
1250	85.6	84.9	86.2	84.4	83.4	83.1	81.1	79.3	79.0	81.7	81.4	81.8	82.5	82.5	81.9	79.5	75.6	73.6	72.9
1500	82.3	81.1	82.2	81.0	79.5	79.4	78.0	76.3	75.9	77.0	76.7	77.7	78.7	79.4	78.9	76.5	72.4	70.5	69.6
2000	79.0	77.8	78.9	77.7	76.2	76.1	74.7	73.0	72.6	73.6	73.1	74.5	75.4	76.1	75.6	73.3	69.2	67.3	66.4
2500	75.0	73.7	74.8	73.6	72.1	72.1	70.7	69.0	68.6	69.5	69.0	70.5	71.4	72.1	71.6	69.3	65.2	63.2	62.4
3150	70.5	69.1	70.2	69.1	67.6	67.5	66.2	64.4	64.1	64.9	64.8	65.9	67.3	67.7	67.3	64.8	60.4	58.9	58.2
4000	64.8	63.7	64.4	63.4	61.7	61.7	60.6	59.0	58.6	59.5	59.6	60.8	62.3	62.8	62.3	59.5	54.9	54.0	53.3
5000	58.7	58.0	58.1	57.5	55.9	55.3	55.0	53.4	52.7	53.8	54.0	55.4	56.9	57.4	56.9	54.1	49.2	48.3	47.4
6300	52.6	52.0	51.8	51.4	49.5	48.7	48.9	47.4	46.4	47.7	47.9	49.5	51.1	51.7	51.2	48.3	42.6	41.5	40.9
8000	47.6	46.8	46.1	46.0	44.1	42.9	43.8	42.1	40.8	42.2	42.5	44.4	46.1	46.8	46.2	43.0	37.2	36.0	35.3
10000	42.2	40.7	39.8	40.0	37.3	36.6	37.4	35.4	34.4	35.7	36.1	37.7	40.1	41.3	40.3	37.2	30.3	30.2	29.3
12500	35.3	33.9	33.5	33.8	30.3	30.2	31.0	28.6	27.8	28.9	28.8	30.9	33.2	34.1	33.1	30.8	22.8	21.6	20.5
16000	29.3	27.1	27.3	27.0	22.8	23.0	23.1	18.6	18.2	17.5	18.0	23.1	25.9	27.1	26.6	22.9	13.5	11.6	8.9
20000	21.4	17.9	18.0	16.2	11.5	12.2	12.3	7.6	7.0	6.1	7.2	13.5	14.7	16.7	16.8	13.6	4.2	1.6	
25000	8.8	8.7	10.3	5.4	.1	1.3	1.5					3.5	3.4	6.4	7.1	4.3			

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (D9A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
IDENTIFICATION:																			
C-130A, D AIRCRAFT																			
ENG. T50-A-9																			
GROUND RUNUP																			
NOISE SOURCE/SUBJECT:																			
OPERATIONS:																			
C-130A, D																			
LOW IDLE																			
SINGLE ENGINE																			
800 IN-LBS																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -6.4 DB																			
PAGE F1																			
TEST 76-520-001																			
RUN 01																			
AIRCRAFT CODE 520																			
OPERATION CODE 04011																			
PROFILE VERSION A																			
13 DEC 76																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.2	89.6	89.9	88.5	87.5	86.9	85.9	84.4	83.9	85.2	85.1	86.1	86.8	87.0	86.8	84.6	83.8	79.0	78.2
250	87.9	87.4	87.6	86.2	85.2	84.6	83.7	82.2	81.8	83.3	82.9	83.9	84.7	85.4	85.4	82.5	80.5	76.9	75.1
315	85.6	85.0	85.3	83.9	82.9	82.3	81.5	80.0	79.5	80.8	80.7	81.7	82.5	83.2	82.4	80.4	76.5	74.7	73.9
400	83.2	82.6	82.8	81.5	80.5	79.9	79.2	77.8	77.3	78.6	78.4	79.4	80.2	81.0	80.2	78.2	74.3	72.5	71.8
500	80.7	80.2	80.3	79.0	78.1	77.5	76.8	75.5	75.0	76.2	76.1	77.1	77.9	78.5	77.9	76.0	72.0	70.3	69.5
630	78.2	77.6	77.7	76.5	75.5	75.0	74.4	73.1	72.6	73.6	73.6	74.7	75.5	76.3	75.5	73.7	69.7	68.0	67.3
800	75.6	75.0	75.0	73.9	72.9	72.4	71.9	70.7	70.2	71.3	71.1	72.3	73.1	73.8	73.1	71.3	67.3	65.6	64.9
1000	73.0	72.4	72.3	71.2	70.3	69.7	69.4	68.2	67.6	68.8	68.5	69.7	70.6	71.3	70.7	68.9	64.9	63.2	62.5
1250	70.2	69.6	69.4	68.5	67.5	66.9	66.7	65.6	65.0	66.0	65.8	67.1	68.0	68.7	68.1	66.3	62.3	60.7	60.0
1600	67.4	66.7	66.5	65.7	64.6	64.1	64.0	62.9	62.3	63.2	62.9	64.4	65.2	66.0	65.4	63.7	59.5	58.1	57.4
2000	64.5	63.8	63.5	62.9	61.6	61.2	61.3	60.1	59.5	60.3	60.0	61.5	62.4	63.2	62.6	60.9	56.7	55.4	54.6
2500	61.3	60.5	60.2	59.6	58.4	57.9	58.1	56.9	56.4	57.1	56.7	58.4	59.3	60.1	59.4	57.3	53.5	52.3	51.6
3150	57.7	57.0	56.6	56.1	54.9	54.4	54.7	53.5	53.0	53.6	53.2	54.9	55.9	56.7	56.0	54.3	50.1	49.0	48.3
4000	53.8	53.1	52.6	52.2	51.0	50.5	50.9	49.7	49.2	49.8	49.3	51.1	52.0	52.9	52.2	50.4	46.2	45.3	44.6
5000	49.5	48.8	48.3	48.0	46.7	46.2	46.7	45.4	44.9	45.5	45.0	46.8	47.8	48.6	47.9	46.0	41.9	41.1	40.4
6300	45.0	44.3	43.7	43.5	42.2	41.7	42.3	41.0	40.5	41.1	40.5	42.3	43.3	44.1	43.4	41.5	37.4	36.7	35.9
8000	41.3	40.5	39.9	39.6	38.4	37.9	38.4	37.1	36.6	37.1	36.6	38.4	39.5	40.4	39.7	37.9	33.6	33.0	32.3
10000	37.3	36.5	35.8	35.5	34.2	33.7	34.3	32.9	32.5	32.9	32.5	34.3	35.5	36.4	35.8	34.0	29.6	29.0	28.3
12500	33.0	32.1	31.5	31.2	29.8	29.3	29.8	28.5	28.1	28.4	28.1	29.9	31.2	32.1	31.4	29.8	25.3	24.7	24.0
16000	28.4	27.4	26.8	26.5	25.1	24.5	25.1	23.7	23.4	23.8	23.6	25.2	26.5	27.4	26.8	25.2	20.6	19.9	19.2
20000	23.4	22.4	21.8	21.5	20.1	19.5	19.9	18.7	18.3	19.3	18.8	20.1	21.5	22.4	21.7	20.2	15.6	14.7	14.1
25000	18.1	17.0	16.5	16.1	14.8	14.1	14.5	13.4	13.1	14.3	14.1	14.8	16.1	17.1	16.3	14.6	10.2	9.1	8.5

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(C-130A,D AIRCRAFT																			
(ENG. T56-A-9																			
(GROUND RUNUP																			
(OPERATIONS:																			
(C-130A,D																			
(LOW IDLE																			
(SINGLE ENGINE																			
(800 IN-LBS																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 79 %																			
DELTA N = -6.4 DB																			
METEOROLOGY:																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-520-001																			
RUN 01																			
AIRCRAFT CODE 52J																			
OPERATION CODE 04J11																			
PROFILE VERSION A																			
13 DEC 76																			
PAGE G1																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	92.4	91.8	93.2	91.3	90.3	89.9	87.7	85.7	85.3	86.7	86.6	87.3	88.2	88.8	88.3	85.8	82.1	80.3	79.6
250	90.1	89.5	90.3	89.0	88.0	87.7	85.5	83.5	83.2	84.5	84.4	85.1	86.1	86.5	86.2	83.7	79.9	78.2	77.5
315	87.8	87.2	88.5	86.7	85.7	85.3	83.2	81.3	81.0	82.3	82.3	82.3	83.9	84.4	84.0	81.5	77.8	76.3	75.3
400	85.4	84.8	86.1	84.3	83.3	83.0	80.9	79.1	78.7	80.3	79.9	80.6	81.6	82.1	81.7	79.3	75.6	73.8	73.1
500	82.9	82.3	83.5	81.8	80.8	80.5	78.6	76.8	76.4	77.7	77.6	78.3	79.3	79.8	79.4	77.1	73.3	71.6	70.9
630	83.4	79.8	83.9	79.3	78.3	78.0	76.2	74.4	74.0	75.3	75.1	75.9	76.9	77.4	77.1	74.8	71.0	69.3	68.6
800	77.8	77.2	78.3	76.7	75.7	75.4	73.7	72.0	71.6	72.8	72.6	73.5	74.5	75.0	74.7	72.5	68.6	67.0	66.3
1000	75.2	74.5	75.5	74.0	73.1	72.7	71.2	69.5	69.0	70.2	70.0	70.9	72.0	72.5	72.2	70.1	66.2	64.6	63.9
1250	72.4	71.7	72.6	71.3	70.2	69.9	68.5	66.9	66.4	67.5	67.3	68.3	69.4	69.9	69.6	67.5	63.5	62.0	61.4
1600	69.6	68.8	69.7	68.5	67.4	67.1	65.8	64.2	63.7	64.7	64.4	65.6	66.6	67.2	66.9	64.8	60.8	59.4	58.7
2000	66.7	65.9	66.7	65.7	64.4	64.2	63.0	61.4	61.0	61.8	61.5	62.7	63.8	64.4	64.1	62.1	58.0	56.7	56.0
2500	63.5	62.7	63.4	62.4	61.2	60.9	59.9	58.2	57.8	58.6	58.2	59.6	60.7	61.3	61.0	58.9	54.8	53.6	53.0
3150	59.9	59.1	59.8	58.9	57.6	57.4	56.4	54.8	54.4	55.1	54.7	56.1	57.3	57.9	57.0	55.4	51.3	50.3	49.7
4000	55.6	54.9	55.2	54.5	53.2	52.9	52.3	50.7	50.3	50.9	50.5	52.0	53.2	53.8	53.5	51.3	47.2	46.3	45.7
5000	50.8	50.1	50.2	49.6	48.4	48.0	47.8	46.2	45.8	46.4	45.9	47.5	48.6	49.3	48.9	46.7	42.6	41.9	41.2
6300	45.9	45.2	45.0	44.0	43.4	42.9	43.0	41.5	41.0	41.7	41.1	42.7	43.8	44.5	44.1	42.0	37.9	37.2	36.5
8000	41.7	41.0	40.5	40.2	38.9	38.4	38.8	37.4	36.9	37.4	36.9	38.9	39.8	40.6	40.0	38.2	33.9	33.2	32.6
10000	37.3	36.5	35.8	35.5	34.2	33.7	34.3	32.9	32.5	32.9	32.5	34.3	35.5	36.4	35.8	34.0	29.6	29.1	28.3
12500	33.0	32.1	31.5	31.2	29.8	29.3	29.8	28.5	28.1	28.4	28.1	29.9	31.2	32.1	31.4	29.8	25.3	24.7	24.0
16000	28.4	27.4	26.8	26.5	25.1	24.5	25.1	23.7	23.4	23.8	23.6	25.2	26.5	27.4	26.8	25.2	20.6	19.9	19.2
20000	23.4	22.4	21.8	21.5	20.1	19.5	19.9	18.7	18.3	19.0	18.8	20.1	21.5	22.4	21.7	20.2	15.6	14.7	14.1
25000	18.1	17.0	16.5	16.1	14.8	14.1	14.5	13.4	13.1	14.3	14.1	14.8	16.2	17.1	16.3	14.8	11.2	9.1	8.5

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-130A,D AIRCRAFT
 ENG. T56-A-9
 GROUND RUNUP
 IDENTIFICATION:
 OMEGA 8.2
 TEST 76-520-801
 RUN 01
 AIRCRAFT CODE 528
 OPERATION CODE 04011
 PROFILE VERSION A
 13 DEC 76
 PAGE J1
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -6.4 DB

ANGLE IN DEGREES	P=PNLT										A=AL										T=ALT									
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
0																														
10																														
20																														
30																														
40																														
50																														
60																														
70																														
80																														
90																														
100																														
110																														
120																														
130																														
140																														
150																														
160																														
170																														
180																														

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		IDENTIFICATION:	
1/3 OCTAVE BAND																		OMEGA 8.2	
DISTANCE = 250 FEET																		TEST 76-520-001	
NOISE SOURCE/SUBJECT:																		RUN 02	
(C-130A, D AIRCRAFT																		AIRCRAFT CODE 520	
(ENG. T56-A-9																		OPERATION CODE 04013	
(GROUND RUNUP																		PROFILE VERSION A	
(SINGLE ENGINE																		REL HUMID = 70 %	
(1400 IN-LBS																		13 DEC 76	
()																		PAGE C2	
BAND CENTER																			
FREQ (HZ)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
50	72	72	71	71	69	70	70	69	70	70	70	72	72	72	71	70	75	76	
63	83	86	84	86	86	90	89	91	91	89	88	87	87	87	82	80	76	77	
80	76	77	76	75	74	76	76	77	77	77	77	77	78	80	77	73	71	72	
100	76	77	76	75	75	75	74	73	75	76	78	81	81	81	77	73	70	71	
125	91	91	91	89	87	88	86	85	84	82	83	86	88	89	84	79	75	76	
160	88	87	86	80	83	84	86	86	88	90	91	94	96	96	88	81	79	81	
200	91	90	90	90	89	85	85	83	81	79	80	82	86	87	89	87	79	76	
250	89	90	91	89	87	87	86	83	81	80	79	81	86	82	85	86	79	78	
315	93	94	93	92	91	90	88	87	82	82	84	86	89	88	89	82	80	79	
400	91	91	90	89	87	84	85	83	79	80	82	83	85	88	84	79	76	77	
500	86	87	87	85	83	82	81	79	78	78	76	79	81	81	83	82	77	74	
630	38	88	87	86	83	81	82	81	77	80	80	81	82	83	82	77	73	74	
800	83	83	83	81	80	79	77	78	77	77	78	78	79	79	77	74	71	71	
1000	84	83	82	81	80	77	78	78	76	77	78	78	79	78	76	73	69	70	
1250	80	80	79	78	78	78	77	75	75	75	75	77	75	76	74	70	67	68	
1600	81	81	79	79	80	79	77	76	76	77	76	76	76	77	73	69	67	66	
2000	80	80	79	77	77	77	77	74	74	75	76	77	76	76	71	66	65	63	
2500	80	79	76	76	76	74	75	74	73	74	74	75	75	74	70	63	64	62	
3150	77	76	75	75	74	74	74	73	74	75	74	75	75	73	70	62	63	61	
4000	74	73	72	72	72	71	71	71	71	72	72	72	72	72	67	60	61	59	
5000	73	73	71	70	70	69	69	70	69	71	71	72	73	71	71	66	58	60	
6300	77	76	75	73	71	70	69	69	70	72	71	72	71	70	65	58	59	57	
8000	81	81	79	78	76	74	73	70	71	72	72	73	72	72	65	59	60	59	
10000	67	67	66	64	63	64	64	65	66	68	67	68	67	67	61	54	55	55	
OVERALL	100	100	100	99	97	96	95	95	95	95	95	95	99	99	96	90	88	88	

TABLE 1 PERCEIVED NOISE LEVEL (PNL) IDENTIFICATION

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

[illegible]

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
G-13CA, D AIRCRAFT																			
ENG. T56-A-9																			
GROUND RUNUP																			
OPERATION:																			
C-130A, D																			
IDLE																			
SINGLE ENGINE																			
1400 IN-LBS																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA N = -6.4 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-52-001																			
RUN 02																			
AIRCRAFT CODE 520																			
OPERATION CODE 04J13																			
PROFILE VERSION A																			
13 DEC 76																			
PAGE E2																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	111.6	111.6	110.8	109.5	108.5	107.6	106.8	105.7	104.5	103.3	102.2	101.2	100.3	109.0	108.0	105.0	98.8	97.3	96.7
250	109.5	109.5	108.7	107.6	106.3	105.4	104.6	103.5	102.3	101.1	100.0	98.9	97.8	106.2	105.5	102.8	96.7	95.2	94.5
315	107.3	107.2	106.4	105.4	104.1	103.2	102.4	101.3	100.1	98.9	97.8	96.7	95.6	104.0	103.3	100.7	94.5	93.0	92.3
450	105.0	105.0	104.2	103.2	101.9	100.9	100.1	99.1	97.5	96.6	95.5	94.4	93.3	101.6	102.3	102.0	98.4	92.2	90.7
500	102.7	102.7	101.9	100.8	99.5	98.6	97.8	96.7	95.1	94.1	93.0	91.9	90.8	99.2	99.9	99.5	96.1	89.9	88.3
630	101.2	101.2	99.5	98.4	97.1	96.2	95.4	94.3	92.9	91.5	90.4	89.3	88.2	97.3	97.0	93.7	87.5	85.9	85.2
800	97.7	97.7	97.0	95.9	94.6	93.7	92.8	91.7	90.7	89.7	88.7	87.6	86.5	94.9	94.2	91.2	85.0	83.3	82.7
1000	95.1	95.1	94.3	93.3	91.9	91.0	90.1	89.0	88.0	87.0	85.9	84.8	83.7	91.2	91.7	88.6	82.3	80.7	80.0
1250	92.0	92.0	91.2	90.2	88.8	87.9	87.0	85.9	84.8	83.7	82.6	81.5	80.4	88.1	88.7	85.5	79.3	77.6	77.1
1600	89.6	89.6	88.8	87.8	86.5	85.6	84.5	83.4	82.3	81.2	80.1	79.0	77.9	85.4	85.7	82.3	76.1	74.3	74.2
2000	87.9	87.9	87.0	86.0	84.7	83.8	82.7	81.6	80.5	79.4	78.3	77.2	76.1	83.4	82.7	78.7	73.1	70.9	71.0
2500	86.1	86.1	85.2	84.2	82.9	82.0	80.9	79.8	78.7	77.6	76.5	75.4	74.3	81.4	80.7	76.4	70.8	67.4	67.1
3150	84.3	84.3	83.4	82.4	81.1	80.2	79.1	78.0	76.9	75.8	74.7	73.6	72.5	79.4	78.7	74.3	68.7	65.2	64.9
4000	82.5	82.5	81.6	80.6	79.3	78.4	77.3	76.2	75.1	74.0	72.9	71.8	70.7	77.6	76.9	72.5	66.9	63.3	62.7
5000	80.7	80.7	79.8	78.8	77.5	76.6	75.5	74.4	73.3	72.2	71.1	70.0	68.9	75.8	75.1	70.7	65.1	61.4	60.8
6300	78.9	78.9	78.0	77.0	75.7	74.8	73.7	72.6	71.5	70.4	69.3	68.2	67.1	74.0	73.3	68.9	63.3	59.7	59.3
8000	77.1	77.1	76.2	75.2	73.9	73.0	71.9	70.8	69.7	68.6	67.5	66.4	65.3	72.2	71.5	67.1	61.5	57.9	57.5
10000	75.3	75.3	74.4	73.4	72.1	71.2	70.1	69.0	67.9	66.8	65.7	64.6	63.5	70.4	69.7	65.3	59.7	56.1	55.7
12500	73.5	73.5	72.6	71.6	70.3	69.4	68.3	67.2	66.1	65.0	63.9	62.8	61.7	68.6	67.9	63.5	57.9	54.3	53.9
16000	71.7	71.7	70.8	69.8	68.5	67.6	66.5	65.4	64.3	63.2	62.1	61.0	59.9	66.8	66.1	61.7	56.1	52.5	52.1
20000	69.9	69.9	69.0	68.0	66.7	65.8	64.7	63.6	62.5	61.4	60.3	59.2	58.1	65.0	64.3	59.9	54.3	50.7	50.3
25000	68.1	68.1	67.2	66.2	64.9	64.0	62.9	61.8	60.7	59.6	58.5	57.4	56.3	63.2	62.5	58.1	52.5	48.9	48.5
30000	66.3	66.3	65.4	64.4	63.1	62.2	61.1	60.0	58.9	57.8	56.7	55.6	54.5	61.4	60.7	56.3	50.7	47.1	46.7
35000	64.5	64.5	63.6	62.6	61.3	60.4	59.3	58.2	57.1	56.0	54.9	53.8	52.7	59.6	58.9	54.5	48.9	45.3	44.9
40000	62.7	62.7	61.8	60.8	59.5	58.6	57.5	56.4	55.3	54.2	53.1	52.0	50.9	57.8	57.1	52.7	47.1	43.5	43.1
45000	60.9	60.9	60.0	59.0	57.7	56.8	55.7	54.6	53.5	52.4	51.3	50.2	49.1	56.0	55.3	50.9	45.3	41.7	41.3
50000	59.1	59.1	58.2	57.2	55.9	55.0	53.9	52.8	51.7	50.6	49.5	48.4	47.3	54.2	53.5	49.1	43.5	39.9	39.5
55000	57.3	57.3	56.4	55.4	54.1	53.2	52.1	51.0	49.9	48.8	47.7	46.6	45.5	52.4	51.7	47.3	41.7	38.1	37.7
60000	55.5	55.5	54.6	53.6	52.3	51.4	50.3	49.2	48.1	47.0	45.9	44.8	43.7	50.6	49.9	45.5	39.9	36.3	35.9
65000	53.7	53.7	52.8	51.8	50.5	49.6	48.5	47.4	46.3	45.2	44.1	43.0	41.9	48.8	48.1	43.7	38.1	34.5	34.1
70000	51.9	51.9	51.0	50.0	48.7	47.8	46.7	45.6	44.5	43.4	42.3	41.2	40.1	47.0	46.3	41.9	36.3	32.7	32.3
75000	50.1	50.1	49.2	48.2	46.9	46.0	44.9	43.8	42.7	41.6	40.5	39.4	38.3	45.2	44.5	40.1	34.5	30.9	30.5
80000	48.3	48.3	47.4	46.4	45.1	44.2	43.1	42.0	40.9	39.8	38.7	37.6	36.5	43.4	42.7	38.3	32.7	29.1	28.7
85000	46.5	46.5	45.6	44.6	43.3	42.4	41.3	40.2	39.1	38.0	36.9	35.8	34.7	41.6	40.9	36.5	30.9	27.3	26.9
90000	44.7	44.7	43.8	42.8	41.5	40.6	39.5	38.4	37.3	36.2	35.1	34.0	32.9	39.8	39.1	34.7	29.1	25.5	25.1
95000	42.9	42.9	42.0	41.0	39.7	38.8	37.7	36.6	35.5	34.4	33.3	32.2	31.1	38.0	37.3	32.9	27.3	23.7	23.3
100000	41.1	41.1	40.2	39.2	37.9	37.0	35.9	34.8	33.7	32.6	31.5	30.4	29.3	36.2	35.5	31.1	25.5	21.9	21.5
105000	39.3	39.3	38.4	37.4	36.1	35.2	34.1	33.0	31.9	30.8	29.7	28.6	27.5	34.4	33.7	29.3	23.7	20.1	19.7
110000	37.5	37.5	36.6	35.6	34.3	33.4	32.3	31.2	30.1	29.0	27.9	26.8	25.7	32.6	31.9	27.5	21.9	18.3	17.9
115000	35.7	35.7	34.8	33.8	32.5	31.6	30.5	29.4	28.3	27.2	26.1	25.0	23.9	30.8	30.1	25.7	20.1	16.5	16.1
120000	33.9	33.9	33.0	32.0	30.7	29.8	28.7	27.6	26.5	25.4	24.3	23.2	22.1	29.0	28.3	23.9	18.3	14.7	14.3
125000	32.1	32.1	31.2	30.2	28.9	28.0	26.9	25.8	24.7	23.6	22.5	21.4	20.3	27.2	26.5	22.1	16.5	12.9	12.5
130000	30.3	30.3	29.4	28.4	27.1	26.2	25.1	24.0	22.9	21.8	20.7	19.6	18.5	25.4	24.7	20.3	14.7	11.1	10.7
135000	28.5	28.5	27.6	26.6	25.3	24.4	23.3	22.2	21.1	20.0	18.9	17.8	16.7	23.6	22.9	18.5	12.9	9.3	8.9
140000	26.7	26.7	25.8	24.8	23.5	22.6	21.5	20.4	19.3	18.2	17.1	16.0	14.9	21.8	21.1	16.7	11.1	7.5	7.1
145000	24.9	24.9	24.0	23.0	21.7	20.8	19.7	18.6	17.5	16.4	15.3	14.2	13.1	20.0	19.3	14.9	9.3	5.7	5.3
150000	23.1	23.1	22.2	21.2	19.9	19.0	17.9	16.8	15.7	14.6	13.5	12.4	11.3	18.2	17.5	13.1	7.5	3.9	3.5
155000	21.3	21.3	20.4	19.4	18.1	17.2	16.1	15.0	13.9	12.8	11.7	10.6	9.5	16.4	15.7	11.3	5.7	2.1	1.7
160000	19.5	19.5	18.6	17.6	16.3	15.4	14.3	13.2	12.1	11.0	9.9	8.8	7.7	14.2	13.5	9.1	3.5	0.0	0.0
165000	17.7	17.7	16.8	15.8	14.5	13.6	12.5	11.4	10.3	9.2	8.1	7.0	5.9	12.0	11.3	6.9	1.3	-2.3	-2.3
170000	15.9	15.9	15.0	14.0	12.7	11.8	10.7	9.6	8.5	7.4	6.3	5.2	4.1	10.2	9.5	5.1	-0.5	-3.9	-3.9
175000	14.1	14.1	13.2	12.2	10.9	10.0	8.9	7.8	6.7	5.6	4.5	3.4	2.3	8.2	7.5	3.1	-2.5	-5.9	-5.9
180000	12.3	12.3	11.4	10.4	9.1	8.2	7.1	6.0	4.9	3.8	2.7	1.6	0.5	6.2	5.5	1.1	-3.5	-6.9	-6.9
185000	10.5	10.5	9.6	8.6	7.3	6.4	5.3	4.2	3.1	2.0	0.9	-0.2	-1.3	4.2	3.5	-0.9	-4.3	-7.7	-7.7
190000	8.7	8.7	7.8	6.8	5.5	4.6	3.5	2.4	1.3	0.2	-0.9	-1.8	-2.7	2.2	1.5	-2.5	-5.9	-9.3	-9.3
195000	6.9	6.9	6.0	5.0	3.7	2.8	1.7	0.6	-0.5	-1.4	-2.3	-3.2	-4.1	0.2	-0.5	-3.5	-6.9	-10.3	-10.3
200000	5.1	5.1	4.2	3.2	1.9	1.0	-0.1	-1.0	-1.9	-2.8	-3.7	-4.6	-5.5	-1.8	-2.5	-5.5	-8.9	-12.3	-12.3
205000	3.3	3.3	2.4	1.4	0.1	-0.8	-1.7	-2.6	-3.5	-4.4	-5.3	-6.2	-7.1	-3.4	-4.1	-7.1	-10.5	-13.9	-13.9
210000	1.5	1.5	0.6	-0.4	-1.7	-2.6	-3.5	-4.4	-5.3	-6.2	-7.1	-8.0	-8.9	-5.2	-5.9	-8.9	-12.3	-15.7	-15.7
215000	-0.3	-0.3	-1.2	-2.2	-3.1	-4.0	-4.9	-5.8	-6.7	-7.6	-8.5	-9.4	-10.3	-6.6	-7.3	-10.3	-13.7	-17.1	-17.1
220000	-2.1	-2.1	-3.0	-4.0	-4.9	-5.8	-6.7	-7.6	-8.5	-9.4	-10.3	-11.2	-12.1	-8.4	-9.1	-12.1	-15.5	-18.9	-18.9
225000	-3.9	-3.9	-4.8	-5.8	-6.7	-7.6	-8.5	-9.4	-10.3	-11.2	-12.1	-13.0	-13.9	-10.2	-10.9	-13.9	-17.3	-20.7	-20.7
230000	-5.7	-5.7	-6.6	-7.6	-8.5	-9.4	-10.3	-11.2	-12.1	-13.0	-13.9	-14.8	-15.7	-12.0	-12.7	-15.7	-19.1	-22.5	-22.5
235000	-7.5	-7.5	-8.4	-9.4	-10.3	-11.2	-12.1	-13.0	-13.9	-14.8	-15.7	-16.6	-17.5						

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-130A, 0 AIRCRAFT																				
ENG. 150-A-9																				
GROUND RUNUP																				
OPERATIONS:																				
C-130A, 0																				
IDLE																				
SINGLE ENGINE																				
1400 IN-LBS																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA M = -6.4 DB																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	97.0	96.9	96.1	95.0	93.7	92.4	92.1	91.2	89.3	87.6	86.3	85.0	82.7	81.1	79.3	77.8	75.7	73.4	70.1	
250	94.9	94.8	94.0	92.9	91.6	90.3	90.0	89.1	87.1	85.4	84.1	82.8	80.5	78.9	77.4	75.3	73.1	70.9	67.8	
315	92.8	92.7	91.9	90.8	89.5	88.2	87.9	87.0	85.0	83.2	81.9	80.6	78.3	76.7	75.2	73.1	70.9	68.7	65.3	
400	90.6	90.5	89.7	88.6	87.3	86.1	85.7	84.8	82.8	81.0	79.7	78.4	76.1	74.5	73.0	70.9	68.7	66.5	63.3	
500	88.4	88.3	87.6	86.4	85.1	83.9	83.5	82.6	80.5	78.8	77.5	76.2	73.9	72.3	70.8	68.7	66.5	64.3	61.1	
530	86.2	86.1	85.3	84.2	82.9	81.5	81.2	80.3	78.2	76.6	75.3	74.0	71.7	70.1	68.6	66.5	64.3	62.1	58.9	
600	83.9	83.8	83.0	81.9	80.6	79.3	78.9	78.0	75.8	74.2	72.9	71.6	69.3	67.7	66.2	64.1	61.9	59.7	56.5	
1000	81.5	81.5	80.7	79.6	78.2	76.9	76.5	75.6	73.3	71.8	70.5	69.2	66.9	65.3	63.8	61.7	59.5	57.3	54.1	
1250	79.0	78.9	78.2	77.0	75.6	74.3	74.0	73.0	70.7	69.2	67.9	66.6	64.3	62.7	61.2	59.1	56.9	54.7	51.5	
1500	76.4	76.3	75.5	74.4	72.9	71.5	71.3	70.3	68.0	66.5	65.2	63.9	61.6	60.0	58.5	56.4	54.2	52.0	48.8	
2000	73.7	73.6	72.8	71.7	70.1	68.7	68.5	67.5	65.2	63.7	62.4	61.1	58.8	57.2	55.7	53.6	51.4	49.2	46.0	
2500	70.6	70.5	69.7	68.5	66.9	65.5	65.3	64.4	62.1	60.6	59.3	58.0	55.7	54.1	52.6	50.5	48.3	46.1	42.9	
3150	67.2	67.1	66.3	65.1	63.5	62.1	61.8	61.0	58.7	57.2	55.9	54.6	52.3	50.7	49.2	47.1	44.9	42.7	39.5	
4000	63.4	63.3	62.5	61.2	59.6	58.1	58.0	57.3	55.0	53.5	52.2	50.9	48.6	47.0	45.5	43.4	41.2	39.0	35.8	
5000	59.1	59.0	58.2	57.0	55.3	53.8	53.7	53.0	50.8	49.3	48.0	46.7	44.4	42.8	41.3	39.2	37.0	34.8	31.6	
6300	54.6	54.6	53.7	52.5	50.8	49.3	49.2	48.6	46.4	44.9	43.6	42.3	40.0	38.4	36.9	34.8	32.6	30.4	27.2	
8000	50.9	50.9	50.0	48.8	47.0	45.4	45.3	44.7	42.5	41.0	39.7	38.4	36.1	34.5	33.0	30.9	28.7	26.5	23.3	
10000	46.9	46.9	46.1	44.8	42.9	41.3	41.2	40.4	38.2	36.7	35.4	34.1	31.8	30.2	28.7	26.6	24.4	22.2	19.0	
12500	42.5	42.5	41.7	40.5	38.4	37.0	36.7	35.9	33.6	32.1	30.8	29.5	27.2	25.6	24.1	22.0	19.8	17.6	14.4	
15000	37.7	37.8	37.0	35.8	33.7	32.3	32.0	31.0	28.8	27.3	26.0	24.7	22.4	20.8	19.3	17.2	15.0	12.8	9.6	
20000	32.5	32.6	31.9	30.7	28.6	27.2	26.9	25.7	23.6	22.1	20.8	19.5	17.2	15.6	14.1	12.0	10.8	8.6	5.4	
25000	26.9	27.0	26.3	25.1	23.1	21.6	21.4	20.1	18.0	16.6	15.2	13.9	11.6	10.0	8.5	6.4	4.2	2.0	-1.2	

TABLE: TONE-CORRECTED, 1-WEIGHTED OVERALL SOUND LEVEL (OBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-130A,0 AIRCRAFT																
ENG. 156-A-9																
GROUND RUNUP																
OPERATIONS:																
C-130A,0																
IDLE																
SINGLE ENGINE																
1400 IN-LBS																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -6.4 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 76-520-001																
AIRCRAFT CODE 520																
OPERATION CODE 04033																
PROFILE VERSION A																
13 DEC 76																
PAGE 02																
ANGLE (DEGREES)																
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																
200	98.5	98.4	97.7	96.5	95.1	93.8	92.2	90.4	88.3	85.9	83.2	80.1	76.5	72.6	68.4	63.7
250	96.4	96.3	95.6	94.4	93.0	91.7	90.1	88.3	86.1	83.9	81.7	79.3	76.0	72.6	68.4	63.7
315	94.3	94.2	93.5	92.3	90.9	89.6	88.0	86.1	83.9	81.7	79.3	76.0	72.6	68.4	63.7	59.0
400	92.1	92.1	91.4	90.1	88.7	87.4	85.8	83.9	81.7	79.3	76.0	72.6	68.4	63.7	59.0	54.3
500	89.9	89.9	89.2	88.0	86.5	85.2	83.5	81.7	79.3	76.0	72.6	68.4	63.7	59.0	54.3	49.6
630	87.7	87.6	86.9	85.7	84.3	83.0	81.3	79.3	76.0	72.6	68.4	63.7	59.0	54.3	49.6	44.9
800	85.4	85.4	84.7	83.5	82.0	80.7	78.9	77.0	74.5	72.6	68.4	63.7	59.0	54.3	49.6	44.9
1000	83.2	83.0	82.3	81.1	79.6	78.3	76.5	74.5	72.6	68.4	63.7	59.0	54.3	49.6	44.9	40.2
1250	80.5	80.5	79.8	78.6	77.0	75.7	74.0	71.9	69.2	66.4	63.7	60.8	57.4	54.3	49.6	44.9
1600	77.9	77.9	77.2	75.9	74.3	72.9	71.3	69.2	66.4	63.7	60.8	57.4	54.3	49.6	44.9	40.2
2000	75.2	75.2	74.4	73.2	71.5	70.0	68.4	66.4	63.7	60.8	57.4	54.3	49.6	44.9	40.2	35.5
2500	72.1	72.1	71.3	70.0	68.4	66.4	63.7	60.8	57.4	54.3	49.6	44.9	40.2	35.5	30.8	26.1
3150	68.7	68.7	67.9	66.6	64.8	63.4	62.0	59.9	57.4	54.3	49.6	44.9	40.2	35.5	30.8	26.1
4000	64.6	64.6	63.8	62.5	60.7	59.2	58.0	55.9	53.6	51.5	49.6	46.9	44.9	42.7	40.2	37.6
5000	60.4	60.4	59.6	58.3	56.5	55.0	53.6	51.5	49.6	46.9	44.9	42.7	40.2	37.6	35.5	33.4
6300	55.3	55.3	54.5	53.1	51.4	49.8	48.6	46.9	44.9	42.7	40.2	37.6	35.5	33.4	31.9	29.5
8000	51.2	51.2	50.4	49.1	47.2	45.7	44.9	42.7	40.2	37.6	35.5	33.4	31.9	29.5	27.0	24.4
10000	46.9	46.9	46.1	44.8	42.9	41.3	40.4	38.9	36.9	34.3	32.4	30.6	28.6	26.1	23.4	20.8
12500	42.5	42.5	41.7	40.5	38.4	37.0	35.9	33.6	31.9	29.5	27.0	24.4	21.9	19.2	16.2	13.7
16000	37.7	37.8	37.0	35.8	33.7	32.3	31.0	28.8	26.1	23.4	20.8	18.2	15.6	13.7	11.2	8.6
20000	32.5	32.6	31.9	30.7	28.6	27.2	25.9	23.6	21.9	19.2	16.2	13.7	11.2	8.6	6.1	3.6
25000	26.9	27.0	26.3	25.1	23.1	21.8	20.4	18.2	15.6	13.7	11.2	8.6	6.1	3.6	1.1	0.0

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
(C-130A, 0) (OPERATION:) (METEOROLOGY:)																			
(ENG. 156-203) (C-130A, 0) (TEMP = 59 F)																			
(GROUND RUNUP) (POWER RUNUP) (BAR PRESS = 29.92 IN HG)																			
(SINGLE ENGINE) (REL HUMID = 73 %) (13 DEC 76)																			
(960V IN-LBS) (DELTA N = -0.4 DB) (PAGE 03)																			
SAND CENTER																			
ANGLE (DEGREES)																			
FREQ (HZ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
50	70	70	71	69	70	70	72	74	77	78	78	78	77	75	74	72	65	59	52
63	87	84	90	87	89	91	94	97	103	103	104	105	101	97	93	87	80	74	67
80	77	76	79	76	78	80	82	85	91	91	93	92	90	85	82	77	71	64	57
100	75	74	73	71	73	74	75	74	74	76	76	77	78	78	75	71	65	58	51
125	81	80	78	76	79	83	81	80	89	90	87	85	85	84	80	73	66	59	53
160	80	78	76	75	76	77	78	79	82	83	81	82	81	82	79	69	63	56	49
200	79	78	76	77	77	82	79	78	73	80	79	81	79	79	73	67	61	54	47
250	80	77	78	80	78	81	79	73	81	82	80	80	80	81	80	67	61	54	47
315	84	80	79	81	79	86	83	80	82	83	81	82	83	83	81	71	64	58	51
400	80	80	79	77	79	84	79	77	81	81	79	81	81	80	76	70	63	57	50
500	79	78	80	79	79	86	80	78	81	81	80	81	80	79	77	71	64	58	51
630	80	80	79	79	78	83	78	76	80	81	77	78	78	77	75	70	63	57	50
800	77	78	77	77	77	82	77	75	79	80	77	76	77	76	74	70	63	57	50
1000	79	78	78	77	77	77	76	75	77	79	80	75	75	75	73	68	62	55	48
1250	77	77	77	76	75	79	76	75	77	78	75	75	74	74	72	67	60	54	47
1600	77	77	77	76	76	78	81	78	78	79	78	76	76	75	73	67	61	54	47
2000	78	77	77	76	76	78	79	78	78	76	75	75	75	75	73	66	59	52	46
2500	79	79	78	77	78	78	78	77	78	76	75	74	74	73	71	65	58	51	45
3150	78	78	78	77	78	78	78	77	77	75	74	73	73	73	71	65	58	52	45
4000	76	76	76	75	76	77	76	75	76	73	72	72	72	71	69	63	56	50	43
5000	75	76	76	74	76	76	76	75	75	72	71	71	71	69	62	55	49	42	35
6300	76	76	78	75	76	75	75	74	74	71	70	70	70	68	60	53	47	40	33
8000	79	81	81	78	77	75	75	73	73	70	69	69	69	67	65	58	51	45	38
10000	70	70	72	69	70	70	70	70	69	67	67	67	69	66	64	57	50	44	37
OVERALL	93	92	94	92	93	96	96	98	104	104	105	105	102	98	95	89	82	75	69
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)												
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE												
NOISE SOURCE/SUBJECT:												
G-13GA-9 AIRCRAFT												
ENG. T56-A-9												
GROUND RUNUP												
DISTANCE												
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110
ANGLE (DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110
200	105.2	105.0	106.1	106.7	105.4	107.1	105.9	105.5	108.0	107.7	107.2	107.5
250	103.9	103.6	103.8	102.4	103.1	104.9	103.0	103.2	105.0	105.6	105.0	105.4
315	101.6	101.2	101.5	100.1	100.8	102.6	101.3	100.9	103.6	103.4	102.9	103.2
400	99.2	98.8	99.3	97.6	98.3	100.2	98.9	98.5	101.4	101.2	100.7	101.3
500	96.6	96.3	96.4	95.0	95.6	97.7	96.3	96.0	99.1	98.9	98.4	98.8
630	93.9	93.6	93.7	92.3	93.1	95.0	93.7	93.3	96.7	96.6	96.1	96.4
800	91.2	90.8	90.8	89.5	90.2	92.3	90.3	90.6	94.3	94.1	93.7	94.0
1000	88.2	87.8	87.8	86.4	87.2	89.6	87.8	87.8	91.7	91.6	91.2	91.5
1250	85.1	84.7	84.6	83.3	84.3	86.7	84.6	84.7	88.8	88.3	88.6	88.9
1500	81.6	81.2	81.1	79.8	80.5	83.7	81.0	80.9	85.7	85.7	85.3	85.6
2000	77.9	77.5	77.4	76.1	76.9	80.5	77.4	76.9	81.5	81.5	81.2	81.7
2500	73.8	73.4	73.2	72.0	72.8	77.1	73.4	73.0	78.9	78.9	78.5	79.0
3150	69.5	69.3	68.8	67.9	68.4	73.1	69.1	68.7	74.8	74.8	74.3	74.9
4000	65.8	64.5	64.1	63.4	63.7	68.5	64.3	63.9	70.4	70.4	69.9	70.4
5000	60.0	59.5	59.0	58.4	58.9	63.6	59.1	58.6	64.3	64.3	63.9	64.3
6300	54.6	54.2	53.5	52.9	52.7	58.5	53.6	52.8	59.9	59.9	59.1	59.5
8000	49.8	49.3	48.8	48.1	47.9	54.3	48.8	47.5	51.6	51.6	50.4	50.2
10000	44.2	43.7	43.4	42.6	42.4	49.5	43.4	41.7	46.6	46.6	45.2	45.2
12500	38.6	37.3	37.3	36.7	36.1	44.0	37.0	35.3	40.4	40.4	38.5	38.5
16000	34.7	33.3	33.6	33.0	32.4	37.7	30.4	27.8	33.9	34.0	31.4	32.5
20000	26.5	24.9	24.3	23.5	22.8	30.9	21.3	17.2	26.1	26.3	22.7	24.1
25000	10.3	9.5	8.1	9.3	8.9	22.8	7.5	6.5	12.7	12.9	6.6	11.4

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECTS																				
(C-130A, D																				
ENG. 156-A-9																				
GROUND RUNUP																				
(OPERATIONS																				
(C-130A, D																				
POWER RUNUP																				
(SINGLE ENGINE																				
(9600 IN-LBS																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA M = -0.4 DB																				
IDENTIFICATIONS:																				
OMEGA 8.2																				
TEST 76-520-001																				
RUN 03																				
AIRCRAFT CODE 529																				
OPERATION CODE 3409																				
PROFILE VERSION A																				
13 DEC 76																				
PAGE E3																				
DISTANCE																				
(FEET)																				
ANGLE (DEGREES)																				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																				
200	107.3	107.1	107.2	105.7	106.1	106.3	106.7	107.0	107.8	109.8	109.4	108.5	108.3	106.7	106.5	104.1	94.6	87.7	80.8	73.8
250	105.0	104.0	104.9	103.4	103.9	104.1	104.4	104.8	105.7	107.7	107.3	106.4	105.2	104.6	102.3	98.9	92.4	85.4	78.5	71.5
315	102.7	102.5	102.6	101.1	101.5	101.8	102.1	102.4	103.5	105.1	104.2	103.4	102.4	100.1	96.7	90.1	83.1	76.1	69.1	62.1
400	100.2	100.0	100.1	98.6	99.1	101.4	99.7	100.4	103.2	104.3	102.0	101.0	100.2	97.9	94.5	87.6	80.6	73.6	66.6	59.6
500	97.6	97.5	97.5	96.0	96.5	98.9	97.1	97.5	100.9	101.7	99.8	99.6	97.9	95.5	92.1	85.0	78.1	71.1	64.0	57.0
630	95.0	94.8	94.8	93.3	93.8	96.2	94.5	94.8	98.6	99.3	97.4	97.2	95.5	93.2	89.6	82.4	75.4	68.4	61.2	54.2
800	92.2	92.0	91.9	90.5	90.9	93.5	91.6	92.2	96.1	96.3	95.0	94.0	93.0	90.7	86.8	79.6	72.6	65.5	58.5	51.5
1000	89.3	89.1	88.9	87.4	87.9	90.8	88.8	89.3	93.6	93.3	92.5	92.4	90.5	87.9	84.0	76.7	69.6	62.4	55.8	48.8
1250	86.1	85.9	85.7	84.3	84.7	88.3	85.4	86.2	90.9	90.7	89.9	89.8	87.8	84.9	80.9	73.7	66.4	59.2	51.2	44.2
1500	82.7	82.5	82.2	80.8	81.3	84.9	81.4	82.4	87.5	87.4	86.6	86.5	84.2	81.2	77.3	70.3	63.2	55.8	47.2	40.2
2000	79.0	78.8	78.5	77.1	77.6	81.8	78.2	78.5	83.4	83.4	82.6	82.5	80.1	77.2	73.6	67.0	59.8	52.0	43.1	36.1
2500	74.9	74.7	74.3	73.0	73.5	78.3	74.2	74.6	78.3	78.7	77.9	77.8	75.5	73.2	70.0	63.3	56.0	47.5	38.7	31.7
3150	70.6	70.3	69.9	68.9	69.1	74.3	69.9	70.3	73.7	73.9	72.7	72.6	70.4	68.9	65.7	59.1	51.4	42.5	33.5	26.5
4000	65.8	65.5	65.0	64.2	64.2	69.5	65.0	65.1	67.3	67.7	66.5	66.0	63.1	61.1	57.9	51.1	43.6	34.7	25.7	18.7
5000	60.6	60.3	59.7	59.0	58.9	64.4	59.6	59.6	62.4	62.4	61.3	60.3	57.5	55.9	52.3	45.3	37.8	28.9	19.9	12.9
6300	55.0	54.7	53.9	53.3	53.0	59.0	54.0	53.4	56.7	56.8	54.5	54.1	51.3	49.7	46.3	39.3	31.8	22.9	13.9	6.9
8000	50.6	49.6	49.0	48.3	48.0	54.6	49.0	47.8	51.9	51.9	49.7	49.4	46.7	45.0	41.6	34.6	27.1	18.1	9.1	2.1
10000	44.2	43.7	43.4	42.6	42.4	49.5	43.4	41.7	46.0	46.0	44.2	44.2	41.5	40.2	36.8	30.8	23.3	14.3	5.3	-1.7
12500	38.0	37.3	37.3	36.7	36.1	44.0	37.0	35.3	40.4	40.4	38.5	38.5	35.8	34.3	30.9	24.9	17.4	8.4	-0.6	-7.6
16000	30.7	30.3	30.6	29.7	29.4	37.7	30.4	27.6	33.9	33.9	31.4	31.4	28.7	27.2	23.8	17.8	10.3	1.3	-8.7	-15.7
20000	23.5	19.9	21.0	19.5	19.2	30.9	21.3	17.2	26.0	26.0	22.7	22.7	20.1	18.6	15.2	9.2	1.7	-9.3	-16.3	-23.3
25000	10.3	9.5	8.1	9.3	8.9	22.3	7.5	6.5	12.7	12.7	10.9	10.9	8.4	7.4	4.9	1.4	-5.1	-12.1	-19.1	-26.1

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OASPL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
G-13CA, 0 AIRCRAFT																			
ENG. 150-A-5																			
GROUND RUNUP																			
OPERATION:																			
C-131A, 0																			
POWER RUNUP																			
SINGLE ENGINE																			
9500 IN-LBS																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -6.4 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-520-031																			
RUN 03																			
AIRCRAFT CODE 520																			
OPERATION CODE 0409																			
PROFILE VERSION A																			
13 DEC 76																			
PAGE F3																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	91.9	91.8	91.8	90.5	90.9	93.8	91.0	90.1	91.8	91.5	93.6	93.9	89.6	89.8	86.6	80.5	73.8	67.2	60.5
250	89.6	89.5	89.5	88.3	88.7	91.7	88.8	87.9	89.7	89.4	87.4	87.8	87.4	86.6	84.4	78.4	71.7	65.3	58.4
300	87.3	87.2	87.2	86.0	86.4	89.4	86.5	85.6	87.3	87.0	85.4	85.0	84.2	82.3	82.3	76.2	69.5	63.1	56.2
350	85.0	84.9	84.9	83.8	84.2	87.3	84.2	83.3	85.0	84.7	83.1	82.7	81.8	80.1	80.1	74.0	67.3	60.7	53.8
400	82.6	82.4	82.3	81.2	81.6	84.5	81.6	80.7	82.3	82.3	80.5	80.1	79.2	77.5	77.5	71.4	64.7	58.1	51.2
450	80.2	79.9	79.8	78.7	79.1	82.1	79.2	78.3	79.9	79.7	78.1	77.7	76.8	75.1	75.1	69.0	62.3	55.7	48.8
500	77.7	77.4	77.2	76.3	76.6	79.3	76.4	75.5	77.2	76.9	75.3	74.9	74.0	72.3	72.3	66.2	59.5	52.9	46.0
550	75.2	74.8	74.6	73.7	74.0	76.7	73.8	72.9	74.5	74.3	72.7	72.3	71.4	69.7	69.7	63.6	56.9	50.3	43.4
600	72.5	72.1	71.9	71.1	71.3	73.9	71.0	70.1	71.7	71.5	69.9	69.5	68.6	66.9	66.9	60.8	54.1	47.5	40.6
650	69.7	69.3	69.1	68.3	68.5	71.1	68.2	67.3	68.9	68.7	67.1	66.7	65.8	64.1	64.1	58.0	51.3	44.7	37.8
700	66.8	66.4	66.2	65.5	65.6	68.2	65.3	64.4	66.0	65.8	64.2	63.8	62.9	61.2	61.2	55.1	48.4	41.8	34.9
750	63.7	63.3	63.1	62.4	62.5	65.1	62.2	61.3	62.9	62.7	61.1	60.7	59.8	58.1	58.1	52.0	45.3	38.7	31.8
800	60.4	60.0	59.8	59.1	59.1	61.8	58.9	58.0	59.6	59.4	57.8	57.4	56.5	54.8	54.8	48.7	42.0	35.4	28.5
850	56.7	56.3	56.2	55.5	55.4	58.1	55.2	54.3	55.9	55.8	54.1	53.7	52.8	51.1	51.1	45.0	38.3	31.7	24.8
900	52.5	52.4	52.1	51.4	51.2	53.9	51.0	50.1	51.7	51.5	49.9	49.5	48.6	46.9	46.9	40.8	34.1	27.5	20.6
950	48.1	47.9	47.7	47.0	46.8	49.5	46.6	45.7	47.3	47.1	45.5	45.1	44.2	42.5	42.5	36.4	29.7	23.1	16.2
1000	44.0	43.9	43.6	42.9	42.7	45.4	42.5	41.6	43.2	43.0	41.4	41.0	40.1	38.4	38.4	32.3	25.6	19.0	12.1
1050	39.6	39.5	39.2	38.6	38.3	40.9	38.0	37.1	38.7	38.5	36.9	36.5	35.6	33.9	33.9	27.8	21.1	14.5	7.6
1100	34.9	34.7	34.5	33.9	33.6	36.2	33.3	32.4	34.0	33.8	32.2	31.8	30.9	29.2	29.2	23.1	16.4	9.8	2.9
1150	29.7	29.5	29.4	28.8	28.5	31.0	28.1	27.2	28.7	28.6	27.0	26.6	25.7	24.0	24.0	17.9	11.2	4.6	-1.3
1200	24.2	23.8	23.6	23.2	23.0	25.5	22.6	21.7	23.2	23.1	21.5	21.1	20.2	18.5	18.5	12.4	5.7	-0.9	-6.0
1250	18.2	17.6	17.4	17.1	17.1	19.5	16.6	15.7	17.2	17.1	15.5	15.1	14.2	12.5	12.5	6.4	-0.3	-5.4	-11.5
* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)														
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
IDENTIFICATION:														
TEST 76-520-001														
RUN 03														
AIRCRAFT CODE 520														
OPERATION CODE 04309														
PROFILE VERSION A														
13 DEC 76														
PAGE 63														
METEOROLOGY:														
TEMP = 59 F														
BAR PRESS = 29.92 IN HG														
REL HUMID = 70 %														
DELTA N = -6.4 DG														
ANGLE (DEGREES)														
DISTANCE (FEET)														
	3	10	20	30	40	50	60	70	80	90	100	110	120	130
	140	150	160	170	180	190	200	210	220	230	240	250	260	270
200	92.9	93.0	92.9	91.5	91.6	95.1	91.8	91.7	93.7	93.2	90.9	90.7	90.3	89.5
250	90.7	90.8	90.6	89.3	89.4	92.9	89.0	89.4	91.5	91.1	88.8	88.0	88.2	87.4
315	88.4	88.4	88.3	87.0	87.1	90.7	87.3	87.2	89.3	88.9	86.7	86.4	86.0	85.2
400	86.1	86.0	85.8	84.0	84.1	88.5	85.3	85.9	87.1	86.8	84.5	84.3	83.9	83.1
500	83.7	83.6	83.4	82.2	82.3	86.3	82.7	82.7	84.8	84.5	82.2	82.0	81.6	80.8
630	81.2	81.1	80.9	79.8	79.9	84.0	80.3	80.1	82.4	82.3	80.0	79.8	79.3	78.5
800	78.6	78.6	78.3	77.3	77.3	81.6	77.8	77.5	80.1	79.9	77.6	77.5	77.0	76.2
1000	76.2	76.0	75.7	74.7	74.7	79.2	75.2	74.9	77.6	77.3	75.2	75.1	74.6	73.8
1250	73.5	73.4	73.3	72.1	72.0	76.7	72.6	72.2	75.3	75.0	72.7	72.6	72.1	71.2
1600	70.7	70.6	70.5	69.3	69.2	74.1	69.9	69.4	72.3	72.3	69.9	69.9	69.4	68.5
2000	67.9	67.8	67.4	66.5	66.4	71.4	67.3	66.9	69.4	69.5	67.0	67.0	66.6	65.7
2500	64.8	64.7	64.3	63.4	63.2	68.4	64.3	63.7	66.3	66.5	63.9	63.8	63.4	62.6
3150	61.4	61.4	61.3	60.1	60.1	65.1	61.0	60.3	62.9	63.2	60.4	60.3	60.0	59.2
4000	57.5	57.5	57.0	56.3	56.3	61.3	57.4	56.4	58.8	59.1	56.3	56.3	56.1	55.3
5000	53.2	53.1	52.7	52.0	52.0	57.1	53.1	52.1	54.3	54.7	51.9	51.9	51.7	50.9
6300	48.5	48.5	48.1	47.4	47.1	52.3	48.4	47.4	49.5	49.5	46.0	47.2	47.1	46.3
8000	44.2	44.2	43.8	43.1	42.8	48.1	44.2	43.2	45.2	45.2	41.8	43.4	43.1	42.2
10000	39.5	39.5	39.2	38.6	38.3	43.7	39.8	38.8	40.7	41.2	38.0	39.3	38.9	38.0
12500	34.9	34.7	34.5	33.9	33.6	39.2	35.1	34.1	36.3	36.8	34.7	35.2	34.7	33.9
15000	29.7	29.5	29.4	28.8	28.5	34.3	29.2	27.7	31.7	32.1	30.5	31.1	30.2	28.8
20000	24.2	23.8	23.8	23.2	23.0	28.9	23.9	22.7	27.1	27.4	26.4	27.1	25.6	23.9
25000	18.2	17.6	17.8	17.1	17.1	22.9	18.4	17.9	22.7	22.9	22.6	23.2	21.1	18.9

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-130A, D AIRCRAFT
 ENG. T56-A-9
 GROUND RUNUP
 IDENTIFICATION:
 OMEGA 8.2
 TEST 76-520-001
 RUN 03
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA M = -6.4 DB
 AIRCRAFT CODE 523
 OPERATION CODE 84009
 PROFILE VERSION A
 13 DEC 76
 PAGE J3

	10	20	30	40	50	60	70	80	90	100	110
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
>160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				IDENTIFICATION:	
1/3 OCTAVE BAND) OMEGA 8.2	
DISTANCE = 250 FEET) TEST 76-520-001	
NOISE SOURCE/SUBJECT:) RUN 04	
(C-130A,0 AIRCRAFT) AIRCRAFT CODE 520	
(ENG. 150-A-9) OPERATION CODE 04030	
(GROUND RUNUP) PROFILE VERSION A	
() 13 DEC 76	
() PAGE C4	
BAND CENTER																					
FREQ (HZ)																				ANGLE (DEGREES)	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
50	76	77	77	77	77	77	77	77	80	80	82	85	83	83	80	79	79	72	66	59	
63	87	92	93	90	98	99	102	106	108	105	111	109	101	100	85	85	87	80	74	57	
80	81	83	83	81	86	87	90	94	96	93	99	97	90	89	85	85	78	71	65	58	
100	82	82	81	80	80	80	81	81	80	80	82	82	83	82	80	80	74	67	61	54	
125	88	89	87	86	85	87	93	97	100	99	94	90	91	89	82	82	75	69	62	55	
160	87	80	85	84	84	84	86	88	91	91	88	86	87	86	83	83	72	66	59	52	
200	86	89	86	88	88	86	84	85	84	85	86	85	84	84	81	81	71	64	58	51	
250	87	89	90	91	88	87	87	86	85	85	86	86	86	85	80	80	69	62	56	49	
315	88	90	91	92	89	91	88	87	87	88	88	88	87	87	83	83	72	65	59	52	
400	85	87	88	86	86	88	85	85	84	83	84	86	85	83	81	81	71	64	58	51	
500	86	87	86	87	87	86	87	87	85	85	85	85	85	84	80	80	70	63	57	50	
630	85	86	86	85	86	86	86	86	84	83	83	83	83	81	79	70	64	57	50		
800	85	86	84	84	84	84	84	84	84	83	82	83	82	81	80	78	71	64	57	51	
1000	84	86	83	84	83	84	85	85	83	82	82	81	81	80	78	71	65	58	51		
1250	83	85	83	84	84	84	85	87	86	84	82	82	83	81	78	77	68	62	55	48	
1600	85	86	87	87	88	87	90	89	87	83	82	82	82	79	78	78	68	62	55	48	
2000	86	86	88	87	88	87	89	87	86	82	81	80	80	79	76	67	60	53	47		
2500	85	86	86	85	86	85	86	85	84	81	81	80	80	78	75	65	59	52	45		
3150	85	87	86	85	85	85	85	85	84	81	80	79	79	78	75	65	59	52	45		
4000	83	84	84	83	83	82	84	82	82	78	77	77	77	76	73	63	56	50	43		
5000	82	83	83	81	81	81	83	81	80	77	76	75	76	74	71	62	56	49	42		
6300	80	81	81	79	79	79	80	78	79	75	74	73	73	73	69	59	52	45	39		
8000	80	81	81	78	78	77	78	76	76	73	72	71	71	70	66	56	50	43	30		
10000	74	74	74	73	73	72	74	72	72	69	69	68	68	67	63	53	47	40	33		
OVERALL	99	100	100	100	102	102	102	107	109	107	112	109	103	102	97	89	83	76	69		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
(C-130A, 0 AIRCRAFT)																				
(ENG. T56-A-9)																				
(GROUND RUNUP)																				
OPERATION:																				
(C-130A, 0)																				
(TAKEOFF POWER)																				
(SINGLE ENGINE)																				
(16000 IN-LBS)																				
TECHNOLOGY:																				
() TEMP = 59 F																				
() BAR PRESS = 29.92 IN HG																				
() REL HUMID = 70 %																				
() DELTA N = -6.4 DB																				
IDENTIFICATIONS:																				
() OMEGA 8.2																				
() TEST 76-520-001																				
AIRCRAFT CODE 52J																				
OPERATION CODE 04130																				
PROFILE VERSION A																				
13 DEC 76																				
PAGE 04																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	112.5	113.8	113.6	112.9	113.0	113.3	114.1	113.4	113.7	111.3	111.3	113.7	112.0	109.1	107.8	104.0	95.4	88.5	81.5	74.5
250	113.2	111.6	111.4	110.7	113.8	116.7	111.9	111.1	111.5	119.1	111.6	113.6	109.9	100.9	105.5	102.4	93.1	86.2	79.2	72.2
315	107.9	109.3	109.1	108.3	108.4	108.4	109.6	108.9	109.3	106.3	109.4	107.3	104.7	104.7	103.4	100.1	90.8	83.8	76.8	69.8
400	105.5	106.9	106.7	106.0	106.1	106.1	107.2	106.5	107.1	104.7	107.3	105.0	102.5	102.5	101.2	97.7	88.4	81.4	74.4	67.4
500	103.0	104.4	104.2	103.5	103.6	103.6	104.7	104.2	104.8	102.5	105.0	103.0	100.2	98.9	95.3	85.8	78.8	71.8	64.8	57.8
630	100.3	101.7	101.5	100.8	101.3	101.0	102.2	101.8	102.5	100.1	102.8	100.3	97.8	90.5	92.9	83.2	76.2	69.2	62.2	55.2
800	97.5	98.9	98.8	98.0	98.4	98.3	99.0	98.3	98.3	97.6	100.4	98.7	95.3	94.0	93.3	80.4	73.4	66.4	59.4	52.4
1000	94.5	95.9	95.9	95.2	95.6	95.5	96.8	95.8	97.2	95.1	98.0	96.2	92.8	91.4	90.7	77.5	70.5	63.5	56.5	49.5
1250	91.3	92.7	92.9	92.2	92.6	92.5	93.9	92.9	94.8	92.4	95.4	93.6	90.0	88.7	88.0	74.6	67.6	60.6	53.6	46.6
1600	87.9	89.3	89.6	88.9	89.3	89.2	90.7	89.7	91.5	89.1	92.1	90.3	86.4	84.9	84.2	70.7	63.7	56.7	49.7	42.7
2100	84.4	85.8	86.1	85.4	85.8	85.7	87.3	86.3	87.9	85.2	88.5	86.7	82.4	80.9	80.2	66.7	59.7	52.7	45.7	38.7
2500	80.5	81.6	82.2	81.5	81.9	81.3	83.5	82.8	83.5	80.7	84.5	82.4	78.2	76.3	75.6	62.1	55.1	48.1	41.1	34.1
3150	76.2	77.5	77.9	77.3	77.6	77.7	79.4	78.0	78.4	75.6	79.4	77.3	73.1	71.2	70.5	56.1	49.1	42.1	35.1	28.1
4000	71.5	72.8	73.1	72.7	73.0	73.1	74.7	73.0	73.2	70.5	73.5	71.3	67.1	65.2	64.4	50.0	43.0	36.0	29.0	22.0
5000	66.4	67.8	68.0	67.7	68.0	68.1	69.8	68.0	68.1	65.5	67.7	65.7	61.5	59.6	58.8	44.4	37.4	30.4	23.4	16.4
6300	60.9	62.4	62.4	62.1	62.4	62.3	64.3	63.5	62.6	60.1	61.7	60.1	55.9	54.0	53.2	38.8	31.8	24.8	17.8	10.8
8000	56.4	57.8	57.9	57.5	57.4	58.1	59.9	58.3	57.4	54.9	57.8	56.0	51.8	49.9	49.1	34.7	27.7	20.7	13.7	6.7
10000	51.4	53.1	53.1	52.7	52.6	53.4	55.6	53.6	52.7	50.1	53.1	51.3	47.1	45.2	44.4	30.0	23.0	16.0	9.0	2.0
12500	45.9	47.8	47.8	47.4	47.1	48.1	50.4	48.4	47.3	44.7	47.7	45.9	41.7	39.8	39.0	24.6	17.6	10.6	3.6	-3.4
16000	39.4	41.4	41.4	41.1	40.8	41.9	44.2	42.2	41.2	38.6	41.6	39.8	35.6	33.7	32.9	18.2	11.2	4.2	-2.8	-9.8
21000	32.2	34.5	34.5	34.2	33.9	35.0	37.3	35.3	34.3	31.7	34.7	32.9	28.7	26.8	26.0	12.4	5.4	-1.6	-8.6	-15.6
25000	21.9	25.2	26.0	25.1	23.6	25.4	28.7	25.5	20.3	22.9	25.3	23.5	19.3	17.4	16.6	2.8	-4.2	-11.2	-18.2	-25.2

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(C-130A, D AIRCRAFT)																
(ENG. T50-A-9)																
(GROUND RUNUP)																
OPERATIONS:																
(C-130A, D)																
(TAKEOFF POWER)																
(SINGLE ENGINE)																
(16000 IN-LBS)																
METEOROLOGY:																
(TEMP = 59 F)																
(BAR PRESS = 29.92 IN HG)																
(REL HUMID = 70 %)																
(DELTA N = -6.4 DB)																
IDENTIFICATIONS:																
(OMEGA 8.2)																
(TEST 76-520-001)																
AIRCRAFT CODE 520																
OPERATION CODE 04030																
PROFILE VERSION A																
13 DEC 76																
PAGE E4																
DISTANCE																
(FEET)	J	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	113.0	114.6	114.3	113.6	113.5	113.9	115.7	115.4	116.1	113.5	115.3	113.0	113.2	108.5	104.6	95.4
250	110.8	112.3	112.0	111.3	111.6	111.6	111.4	111.4	111.4	111.4	111.4	111.4	110.8	106.4	102.4	93.1
315	108.4	113.0	109.7	109.0	109.3	111.1	113.9	111.8	111.8	111.8	111.8	111.8	108.7	103.6	100.1	90.8
400	106.0	107.6	107.3	106.7	106.6	107.0	108.6	109.0	109.0	109.0	109.0	108.6	106.5	103.6	102.0	97.7
500	103.5	105.1	104.8	104.2	104.1	104.5	106.2	107.3	107.3	107.3	107.3	106.6	104.3	101.3	99.7	95.3
630	100.9	102.5	102.1	101.5	101.6	101.9	103.8	103.9	104.9	102.3	104.3	102.0	98.9	97.3	92.9	83.2
800	98.1	99.7	99.4	98.7	98.9	99.2	101.2	101.4	102.5	99.9	102.0	99.6	96.4	94.8	90.3	80.4
1000	95.0	96.7	96.6	95.9	96.1	96.4	98.4	98.8	99.9	97.4	99.5	97.1	93.8	92.2	87.5	77.5
1250	91.9	93.5	93.5	92.9	93.1	93.4	95.5	96.1	97.3	94.7	97.0	94.5	91.1	89.5	84.5	74.5
1600	88.5	89.9	89.2	88.6	89.0	89.1	92.3	92.0	93.9	91.4	93.7	91.2	87.5	85.7	80.9	71.3
2000	85.0	86.3	86.1	86.3	86.5	86.5	88.8	88.0	90.3	87.5	90.1	87.7	83.5	81.7	77.7	67.9
2500	81.1	82.4	82.8	82.2	82.4	82.8	85.1	84.9	87.9	85.1	87.9	85.1	81.4	79.3	75.3	65.6
3150	76.8	78.2	78.5	78.0	78.2	78.5	80.9	80.7	83.7	80.9	83.7	80.9	77.2	75.2	71.2	61.5
4000	71.9	73.4	73.6	73.2	73.4	73.6	76.0	75.6	78.6	75.6	78.6	75.6	72.2	70.3	66.7	57.0
5000	68.8	69.2	69.4	68.1	68.3	68.6	70.7	70.2	73.2	70.2	73.2	70.2	66.3	64.5	60.9	51.2
6300	61.1	62.7	62.7	62.4	62.7	62.9	64.9	64.3	67.3	64.3	67.3	64.3	60.5	58.6	55.0	45.3
8000	56.5	58.0	57.6	57.6	57.6	58.3	60.2	59.7	62.7	59.7	62.7	59.7	55.1	53.6	49.7	39.7
10000	51.4	53.1	52.7	52.7	52.6	53.4	55.6	55.6	58.6	55.6	58.6	55.6	51.5	50.2	46.5	36.5
12500	45.9	47.8	47.4	47.4	47.1	48.1	50.0	49.2	52.0	49.2	52.0	49.2	45.1	43.8	40.1	30.1
16000	39.4	41.4	41.4	41.1	40.8	41.9	43.5	42.2	45.0	42.2	45.0	42.2	38.2	36.9	33.2	23.2
20000	32.2	34.5	34.4	34.2	33.2	34.5	36.4	34.2	37.0	34.2	37.0	34.2	30.3	28.9	25.3	15.3
25000	21.9	25.2	26.0	25.1	23.6	25.8	28.7	25.5	28.3	25.5	28.3	25.5	21.0	17.3	13.7	3.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(C-130A, D AIRCRAFT										) OMEGA 8-2									
(ENG. 156-A-9										) TEST 76-920-001									
(GROUND RUNUP										) RUN 04									
DISTANCE										METEOROLOGY:									
(FEET)	5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
230	98.1	93.3	99.4	98.8	98.9	98.9	100.0	99.0	98.2	95.8	95.9	95.0	94.6	93.1	90.4	81.4	74.7	68.0	61.4
250	95.9	97.1	97.2	96.7	96.7	96.7	97.0	96.0	96.0	93.6	93.6	92.9	92.4	90.4	88.3	79.3	72.6	65.9	59.3
315	93.6	94.9	94.3	94.5	94.5	94.5	95.6	94.6	93.8	91.5	91.7	90.8	90.3	88.6	86.2	77.1	70.4	63.8	57.1
500	91.4	92.6	92.7	92.2	92.2	92.3	93.4	92.4	91.0	89.3	89.5	88.6	88.1	86.6	84.0	74.9	68.3	61.6	54.9
630	89.0	91.3	91.3	89.9	89.9	90.3	91.0	90.1	89.3	87.0	87.3	86.4	85.8	84.4	81.7	72.7	66.0	59.4	52.7
800	86.6	87.9	87.9	87.5	87.5	87.6	88.7	87.7	86.3	84.7	85.1	84.1	83.5	82.0	79.5	70.4	63.8	57.1	50.4
1000	84.1	85.4	85.4	85.1	85.0	85.2	86.2	85.3	84.5	82.3	82.7	81.8	81.2	79.7	77.1	68.1	61.4	54.8	48.1
1250	81.5	82.9	82.9	82.6	82.5	82.7	83.6	82.8	81.9	79.8	80.4	79.4	78.7	77.3	74.7	65.7	59.0	52.4	45.7
1500	78.8	80.2	80.2	79.9	79.8	80.0	81.0	80.1	79.3	77.1	77.9	76.9	76.1	74.7	72.1	63.2	56.5	49.8	43.2
2000	73.1	74.5	74.4	74.1	74.1	74.4	75.2	74.4	73.4	71.4	72.1	71.3	70.6	69.1	66.7	57.8	51.1	44.5	37.8
3150	70.0	71.4	71.2	70.9	70.9	71.2	72.0	71.3	70.2	68.2	68.9	68.2	67.5	66.0	63.6	54.8	48.1	41.5	34.8
4000	66.6	68.0	67.7	67.4	67.4	67.8	68.6	67.8	66.7	64.8	65.4	64.7	64.1	62.6	60.3	51.6	44.9	38.3	31.6
5300	62.9	64.2	63.8	63.6	63.6	64.0	64.8	64.0	62.9	61.0	61.5	60.9	60.4	58.8	56.6	48.0	41.4	34.7	28.0
6300	58.7	60.1	59.5	59.3	59.3	59.7	60.6	59.6	58.6	56.8	57.4	56.7	56.2	54.7	52.5	44.0	37.4	30.7	24.0
8000	54.2	55.7	55.0	54.8	54.8	55.2	56.0	55.3	54.1	52.4	53.0	52.3	51.8	50.3	48.1	39.7	33.1	26.4	19.7
13000	50.1	51.5	50.8	50.6	50.5	51.3	51.5	51.0	49.9	48.3	49.1	48.5	47.8	46.3	44.1	35.7	29.0	22.3	15.7
17000	45.6	47.1	46.4	46.2	46.0	46.6	46.8	46.4	45.5	44.1	45.1	44.4	43.6	42.2	39.7	31.3	24.6	17.9	11.3
25000	40.9	42.3	41.7	41.5	41.3	41.9	42.1	41.6	40.9	39.6	40.9	40.2	39.0	37.7	35.1	26.5	19.8	13.1	6.5
35000	35.7	37.1	36.7	36.4	36.2	36.9	37.1	36.6	35.9	34.6	35.9	35.2	34.2	32.9	30.1	21.3	14.6	8.0	1.3
50000	30.1	31.6	31.4	31.1	30.8	31.6	31.3	31.6	31.9	30.4	32.9	31.6	30.2	27.3	24.9	15.9	9.2	2.5	
75000	24.0	25.0	25.6	25.3	25.1	25.9	25.6	26.8	27.8	26.1	29.4	27.5	26.0	22.9	19.5	10.4	3.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(C-130A, 0 AIRCRAFT)										(OREGA 8.2)									
(ENG. 156-A-9)										(TEST 76-520-301)									
(GROUND RUNUP)										(RUN 04)									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT: C-130A, D AIRCRAFT
 ENG. 156-A-9
 GROUND RUNUP
 OPERATIONS: C-130A, D
 TAKEOFF POWER
 SINGLE ENGINE
 16880 IN-LBS
 METEOROLOGY: TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -6.4 DB
 IDENTIFICATION: OMEGA 8.2
 TEST 76-520-001
 RUN 04
 AIRCRAFT CODE 520
 OPERATION CODE 04J30
 PROFILE VERSION A
 13 DEC 76
 PAGE J4

ANGLE IN DEGREES	NOISE LEVEL IN PNDB OR DBA										
	20	30	40	50	60	70	80	90	100	110	120
3
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	30	40	50	60	70	80	90	100	MEAN	SD
50	67.0	
63	67.0	
80	94.0	
100	89.0	
125	77.0	
160	76.0	
200	77.0	
250	76.0	
315	77.0	
400	78.0	
500	76.0	
630	76.0	
800	76.0	
1000	75.0	
1250	73.0	
1600	71.0	
2000	68.0	
2500	67.0	
3150	68.0	
4000	66.0	
5000	60.0	
6300	54.0	
8000	48.0	
10000	40.0	

FR E Q U E N C Y I N H Z

C-130 TAKEOFF POWER 16800 IN-LBS 970 C ITT

AIRSPEED = 170 KNOTS TEMP = 59 F PNLT = 97.7 PND8
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 97.7 PND8
 NO. OF RECORDS = 1 IDENT: 6.6-006-103-300677 ALT = 83.7 DBA
 AL = 83.7 DBA

TABLE 1 SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE									
AIRCRAFT-GROUND PROPAGATION									
AIRCRAFT									
C-130									
OPERATION: TAKEOFF POWER									
18000 IN-LBS 970 C TIT									
METEOROLOGY: TEMP = 59 F									
REL HUMID = 75 %									
30 JUN 77									
PAGE 11									
IDENTIFICATION: OMEGA 6.6									
A/C CODE: 000									
OPS CODE: 101									
PROFILE VER: A									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									
SEL (DB)									

	30	40	50	60	70	80	90	100	110
200	(((((((((
	C-130	TAKEOFF POWER							
250	(((((((((
	16000 IN-LBS	970 C TIT							
315	(((((((((
	AIRSPED = 170 KNOTS								
400	(((((((((
	TEMP = 59 F	REL HUMID = 70 %							
500	(((((((((
	DELTA N = 0.0 DB								
630	(((((((((
	NO. OF RECORDS: 1								
800	(((((((((
	IDENT: 6.6-006-103-300677-A								
1000	(((((((((
1250	(((((((((
1600	(((((((((
2000	(((((((((
2500	(((((((((
3150	(((((((((
4000	(((((((((
5000	(((((((((
6300	(((((((((
8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 006	
C-130																									OPS CODE: 103	
																									PROFILE VER: A	
																									30 JUN 77	
																									PAGE L1	
																									METEOROLOGY:	
																									TEMP = 59 F	
																									REL HUMID = 70 %	
																									DELTA N = 0.0 DB	
																									AIRSPEED = 170 KNOTS	
																									FREQUENCY BAND NUMBER	
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	76	103	98	86	85	87	86	85	86	87	86	86	86	86	85	83	82	79	79	81	81	76	73	72	71	
250	74	101	96	84	83	85	84	83	84	85	84	84	84	84	83	81	80	77	77	79	79	74	71	69	67	
315	72	99	94	82	81	83	82	81	82	83	81	82	82	82	81	79	78	75	75	77	76	71	68	66	64	
400	70	97	92	80	79	81	80	79	80	81	79	80	80	80	79	77	75	73	72	74	74	68	65	62	59	
500	68	95	90	78	77	78	78	77	78	79	77	77	77	77	76	74	71	70	72	71	65	61	58	55		
630	66	93	88	76	74	76	75	74	76	77	75	75	75	75	74	73	71	68	67	69	68	62	58	54	49	
800	64	91	86	74	72	73	72	72	74	75	73	73	73	73	72	70	68	66	65	66	65	59	54	49	43	
1000	62	89	84	71	69	70	69	69	72	73	71	71	71	71	70	68	66	63	62	63	61	55	49	43	35	
1250	60	87	81	68	66	67	66	66	69	71	69	69	69	69	68	66	63	60	59	60	57	51	44	36	26	
1600	58	84	78	64	62	64	63	62	66	69	67	66	66	66	65	63	61	57	56	56	53	46	38	28	15	
2000	55	80	74	60	58	60	59	58	62	66	64	64	64	64	63	60	58	54	52	52	47	40	30	19	2	
2500	51	76	70	56	54	55	54	54	58	63	62	62	61	60	57	54	50	48	47	47	41	33	22	7		
3150	47	72	65	51	49	51	49	49	54	59	58	58	58	57	54	51	46	43	43	41	35	26	11			
4000	43	67	60	46	44	45	44	43	49	54	55	56	56	54	50	47	42	38	35	26	16					
5000	38	62	55	41	39	40	39	38	43	48	50	51	52	50	47	42	37	32	27	16	5					
6300	33	58	50	36	34	35	34	33	37	43	46	47	48	46	42	37	31	25	18	4						
8000	31	55	48	34	32	33	31	31	34	40	43	44	44	42	37	31	24	16	7							
10000	28	53	46	32	29	30	29	28	31	37	39	40	39	37	31	24	16	6								
12500	26	51	44	29	27	28	26	25	28	33	36	35	34	31	25	16										
16000	24	49	41	27	24	25	23	22	24	29	31	30	29	24	17	7										
20000	22	46	39	24	22	22	20	18	20	25	26	25	22	16												
25000	19	44	36	22	19	19	17	14	16	20	20	18	14	7												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	TAKEOFF POWER	970 C TIT	REL HUMID	DELTA N	SELT**	SEL	EPNL**	IDENTIFICATION:
C-130	(	(	(	(	(	(DB)	(DB)	(EPNDB)	
	(	(	(	(	(				OMEGA 6.6
	(	(	(	(	(				A/C CODE: 006
	(	(	(	(	(				OPS CODE: 103
	(	(	(	(	(				PROFILE VER: A
	(	(	(	(	(				30 JUN 77
	(	(	(	(	(				PAGE M1
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	94.3	94.3	108.5	108.5	93.3	93.3	99.5		
250	92.1	92.1	106.3	106.3	92.2	92.2	98.3		
315	90.0	90.0	104.2	104.2	91.1	91.1	97.1		
400	87.8	87.8	102.0	102.0	89.9	89.9	95.9		
500	85.6	85.6	99.7	99.7	88.7	88.7	94.6		
630	83.3	83.3	97.3	97.3	87.4	87.4	93.3		
800	81.0	81.0	94.9	94.9	86.1	86.1	91.8		
1000	78.6	78.6	92.3	92.3	84.7	84.7	90.3		
1250	76.1	76.1	89.6	89.6	83.2	83.2	88.6		
1600	73.5	73.5	86.0	86.0	81.6	81.6	86.0		
2000	70.8	70.8	82.0	82.0	79.9	79.9	83.0		
2500	67.8	67.8	77.8	77.8	77.9	77.9	79.8		
3150	64.5	64.5	73.6	73.6	75.6	75.6	76.5		
4000	60.9	60.9	69.1	69.1	73.0	73.0	73.1		
5000	56.9	56.9	64.4	64.4	70.0	70.0	69.3		
6300	52.6	52.6	59.2	59.2	66.7	66.7	65.1		
8000	48.6	48.6	54.8	54.8	63.7	63.7	61.7		
10000	44.3	44.3	49.6	49.6	60.4	60.4	57.6		
12500	39.7	39.7	44.0	44.0	56.8	56.8	53.0		
16000	34.6	34.6	37.6	37.6	52.7	52.7	47.5		
20000	29.4	29.4	30.1	30.1	48.5	48.5	41.1		
25000	24.1	24.1	17.7	17.7	44.2	44.2	29.7		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

	20	30	40	50	60	70	80	90	MEAN	SD
50	59.0	
63	80.0	
80	83.0	
100	77.0	
125	77.0	
160	73.0	
200	75.0	
250	72.0	
315	74.0	
400	72.0	
500	75.0	
630	72.0	
800	73.0	
1000	71.0	
1250	71.0	
1600	69.0	
2000	68.0	
2500	66.0	
3150	60.0	
4000	55.0	
5000	49.0	
6300	39.0	
8000		
10000		

F R E Q U E N C Y

427

C-130 APPROACH POWER 4000 IN-LBS 580 C TIT

AIRSPEED = 140 KNOTS TEMP = 59 F PNLT = 95.9 PNOB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 94.9 PNOB

NO. OF RECORDS = 1 IDENT: 6.6-006-105-300677 ALT = 83.1 OBA

AL = 82.1 OBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 006	
C-130																									OPS CODE: 105	
4000 IN-LBS 580 C TIT																									REL HUMID = 70 %	
AIRSPEED = 140 KNOTS																									DELTA N = 0.0 DB	
METEOROLOGY:																									TEMP = 59 F	
FREQUENCY BAND NUMBER																									30 JUN 77	
SLANT DISTANCE (FEET)																									PAGE H2	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
200	73	94	97	91	91	87	89	86	86	88	87	90	87	88	88	87	87	86	86	86	81	79	78	75		
250	71	92	95	89	89	85	87	84	84	86	85	88	85	86	86	85	85	84	84	84	79	77	75	71		
315	69	90	93	87	87	83	85	82	82	84	82	86	83	84	84	83	83	82	82	81	76	74	72	68		
400	67	88	91	85	85	81	83	80	80	82	80	84	81	82	82	80	81	79	79	79	73	71	68	63		
500	65	86	89	83	83	79	81	78	78	80	78	81	79	80	80	78	79	77	77	76	70	67	64	59		
630	63	84	87	81	81	77	79	76	76	78	76	79	76	78	78	76	76	74	74	73	67	64	60	53		
800	61	82	85	79	79	75	77	74	74	76	74	77	74	75	75	73	74	72	71	70	64	60	55	47		
1000	59	80	83	77	77	73	75	72	72	74	72	75	72	73	73	71	71	69	68	66	60	55	49	39		
1250	57	78	81	75	75	71	73	70	70	72	70	73	70	71	71	68	68	66	65	62	56	50	42	30		
1600	55	76	79	73	73	69	71	68	68	70	68	70	67	68	68	66	65	63	61	58	51	44	34	19		
2000	53	74	77	71	71	67	69	66	66	67	65	68	65	66	65	63	62	59	57	52	45	36	25	6		
2500	51	72	75	69	69	65	67	63	63	65	63	66	62	63	62	59	58	55	52	46	38	28	13			
3150	49	70	73	67	67	63	64	61	61	63	60	63	59	60	59	56	54	50	46	40	31	17				
4000	47	68	71	65	64	60	62	59	59	60	58	60	57	57	55	52	50	45	40	31	21	5				
5000	45	66	69	62	62	58	60	57	56	58	55	57	53	53	52	47	45	39	32	21	10					
6300	43	64	66	60	60	56	57	54	54	55	52	54	50	49	47	42	39	32	23	9						
8000	41	61	64	58	58	53	55	52	51	52	49	51	46	45	42	36	32	23	12							
10000	38	59	62	56	55	51	52	49	48	49	45	47	41	40	36	29	24	13								
12500	36	57	60	53	53	48	50	46	45	45	42	42	36	34	30	21	14	0								
16000	34	55	57	51	50	46	47	43	41	41	37	37	31	27	22	12										
20000	32	52	55	48	48	43	44	39	37	37	32	32	24	19	12											
25000	29	50	52	46	45	39	40	35	33	32	26	25	16	10	0											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	580 C TIT	METEOROLOGY:	TEMP	REL HUMID	DELTA N	0.0 DB	IDENTIFICATION:
C-130	(	(	(	(	(	(	(	(	OMEGA 6.6
	(	(	(	(	(	(	(	(	A/C CODE: 006
	(	(	(	(	(	(	(	(	OPS CODE: 105
	(	(	(	(	(	(	(	(	PROFILE VER: A
	(	(	(	(	(	(	(	(	30 JUN 77
	(	(	(	(	(	(	(	(	PAGE 12
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	98.2	99.2	112.2	113.2	96.8	96.8	102.1		
250	96.0	97.0	110.0	111.0	95.6	95.6	100.9		
315	93.8	94.3	107.7	108.7	94.4	94.4	99.6		
400	91.6	92.6	105.4	106.4	93.2	93.2	98.3		
500	89.3	90.3	102.9	103.9	91.9	91.9	96.8		
630	87.0	88.0	100.4	101.4	90.6	90.6	95.3		
800	84.5	85.6	97.7	98.7	89.2	89.2	93.6		
1000	82.1	83.1	94.9	95.9	87.7	87.7	91.8		
1250	79.6	80.6	92.1	93.1	86.2	86.2	90.0		
1600	77.0	78.0	89.1	90.1	84.6	84.6	88.0		
2000	74.3	75.3	86.0	87.0	82.8	82.8	85.9		
2500	71.5	72.5	82.7	83.7	81.0	81.0	83.6		
3150	68.6	69.6	79.4	80.4	79.1	79.1	81.3		
4000	65.5	66.3	76.2	77.0	77.1	77.1	79.1		
5000	62.4	63.0	72.9	73.5	75.0	75.0	76.8		
6300	59.1	59.5	69.5	69.9	72.7	72.7	74.4		
8000	55.7	55.9	65.9	66.1	70.3	70.3	71.8		
10000	52.2	52.2	62.1	62.1	67.8	67.8	69.0		
12500	48.6	48.6	58.0	58.0	65.2	65.2	66.0		
16000	44.9	44.9	53.7	53.7	62.5	62.5	62.6		
20000	41.2	41.2	49.1	49.1	59.8	59.8	59.0		
25000	37.4	37.4	43.7	43.7	57.0	57.0	54.7		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	C-130 APPROACH POWER										A+	*P
250	4000 IN-LBS	580 C TIT									A+	*P
315	AIRSPEED = 140 KNOTS										A+	*P.
400	TEMP = 59 F	REL HUMID = 70 %									A+	*P.
500	DELTA N = 6.0 DB									A+	*P	
	NO. OF RECORDS: 1									A+	*P	
	IDENT: 6.6-006-105-300677-A									A+	*P	
S 630	A+	.	*P
L 800	A+	.	*P.
N 1000	A+	.	*P
D 1250	A+	.	*P
I 1600	A+	.	*P
T 2000	A+	.	*P.
A 2500	A+	.	*P
C 3150	A+	.	*P
E 4000	A+	.	*P
F 5000	A+	.	*P
E 6300	A+	.	*P
E 8000	A+	.	*P
10000	A+	.	*P
12500	A+	.	*P
16000	A+	.	*P
20000	A+	.	*P
25000	A+	.	*P

[illegible]

TABLE 1		SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																				IDENTIFICATION:	
		GROUND-TO-GROUND PROPAGATION																					
		AIRCRAFT:																					
		(OPERATION:)																					
		(APPROACH POWER)																					
		(4000 IN-LBS 580 C TIT)																					
		(AIRSPEED = 140 KNOTS)																					
		(DELTA N = 0.0 DB)																					
		C-130																					
		METEOROLOGY:																					
		TEMP = 59 F																					
		REL HUMID = 70 %																					
		30 JUN 77																					
		PAGE L2																					
		OMEGA 6.6																					
		A/C CODE: 006																					
		OPS CODE: 105																					
		PROFILE VER: A																					

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 006	
(OPERATION:)										OPS CODE: 105	
(APPROACH POWER)										REL HUMID = 70 %	
(4000 IN-LBS 580 C TIT)										PROFILE VER: A	
()										30 JUN 77	
(AIRSPEED = 140 KNOTS)										PAGE M2	
DELTA N = 0.0 DB											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPHL** (EPNU)				
200	93.2	94.2	107.2	108.2	91.8	91.8	97.1				
250	91.0	92.0	105.0	106.0	90.6	90.6	95.9				
315	88.8	89.8	102.7	103.7	89.4	89.4	94.6				
400	86.6	87.6	100.3	101.3	88.2	88.2	93.2				
500	84.3	85.3	97.8	98.8	86.9	86.9	91.7				
630	81.9	82.9	95.2	96.2	85.5	85.5	90.1				
800	79.5	80.5	92.4	93.4	84.1	84.1	88.3				
1000	77.0	78.0	89.4	90.4	82.6	82.6	86.3				
1250	74.4	75.4	86.4	87.4	81.0	81.0	84.3				
1600	71.7	72.7	83.1	84.1	79.3	79.3	82.0				
2000	68.9	69.9	79.6	80.6	77.5	77.5	79.5				
2500	65.9	66.9	75.7	76.7	75.5	75.5	76.7				
3150	62.6	63.6	71.7	72.7	73.2	73.2	73.6				
4000	59.0	59.8	67.2	68.0	70.6	70.6	70.1				
5000	54.9	55.5	62.2	62.8	67.5	67.5	66.1				
6300	50.6	51.0	56.9	57.3	64.1	64.1	61.8				
8000	46.4	46.6	52.4	52.6	61.0	61.0	58.3				
10000	41.9	41.9	47.0	47.0	57.4	57.4	53.9				
12500	37.0	37.0	40.3	40.3	53.6	53.6	48.3				
16000	31.7	31.7	33.5	33.5	49.2	49.2	42.4				
20000	25.9	25.9	24.0	24.0	44.5	44.5	33.9				
25000	19.8	19.8	11.7	11.7	39.4	39.4	22.6				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	30	40	50	60	70	80	90	100	110
200	(((((((((
	C-130	APPROACH POWER							
250	(((((((((
	4000 IN-LBS	530 C TIT							
315	(((((((((
	AIRSPD = 140 KNOTS								
400	(((((((((
	TEMP = 59 F	REL HUMID = 70 %							
500	(((((((((
	DELTA N = 6.0 DB								
630	(((((((((
	NO. OF RECORDS: 1								
700	(((((((((
	IDENT: 6.6-006-105-300677-A								
800	(((((((((
900	(((((((((
1000	(((((((((
1100	(((((((((
1200	(((((((((
1300	(((((((((
1400	(((((((((
1500	(((((((((
1600	(((((((((
1700	(((((((((
1800	(((((((((
1900	(((((((((
2000	(((((((((
2100	(((((((((
2200	(((((((((
2300	(((((((((
2400	(((((((((
2500	(((((((((

GROUND TO GROUND
P = PULL
+ = PULL
+ = ALT
A = AL

[illegible]

[illegible]

NOISE PRODUCED ON THE GROUND BY

C-130E AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-064-036
AIRCRAFT CODE: 006
PROFILE VERSION: A

COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

PAGE

LOW IDLE 800 IN-LBS, 635 C TIT, 650 LBS/HR	437-442
IDLE 1400 IN-LBS, 560 C TIT, 780 LBS/HR	443-448
POWER RUNUP 9600 IN-LBS, 775 C TIT, 1400 LBS/HR	449-454
TAKEOFF 16800 IN-LBS, 970 C TIT, 2000 LBS/HR	455-460

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION
PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

61 APR 76

AEROSPACIL MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)		IDENTIFICATION:																		
1/3 OCTAVE BAND		) OMEGA 8.2																		
DISTANCE = 250 FEET		) TEST 74-094-036																		
NOISE SOURCE/SUBJECT:		) RUN 01																		
C-130E AIRCRAFT		) METEOROLOGY:																		
ENG. T56-A-7		) TEMP = 59 F																		
GROUND RUNUP		) BAR PRESS = 29.92 IN HG																		
		) REL HUMID = 70 %																		
		) DELTA N = -6.0 DB																		
		) PAGE 01																		
BAND CENTER		ANGLE (DEGREES)																		
FREQ (HZ)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	83	83	83	82	82	80	80	79	78	77	81	80	76	80	78	79	78	74	74	76
63	71	71	69	68	68	68	68	67	67	67	69	68	69	70	71	71	70	66	65	66
80	79	80	79	78	76	75	75	72	73	71	73	72	73	75	76	75	74	70	69	68
100	87	85	84	84	86	83	85	85	84	85	87	89	86	89	89	86	82	78	77	77
125	85	84	83	82	84	81	83	83	84	85	88	88	85	87	88	85	81	76	76	76
160	83	83	82	83	80	80	80	81	79	77	79	80	80	82	83	83	80	76	74	73
200	82	82	82	83	80	80	80	79	77	77	78	78	79	79	80	80	80	76	73	72
250	81	81	80	79	79	77	77	76	74	73	75	78	77	78	78	79	80	75	72	72
315	83	84	83	79	82	80	80	78	78	75	77	78	79	81	81	82	81	77	75	74
400	83	81	82	81	79	79	79	79	77	77	77	75	79	79	81	80	79	74	72	71
500	79	77	76	78	74	74	74	76	72	73	72	72	74	75	77	75	75	70	69	69
630	77	78	77	73	75	74	74	73	74	73	73	74	76	78	79	78	76	71	72	71
800	76	74	73	74	72	72	72	74	71	71	70	68	72	72	73	72	70	66	66	65
1000	73	73	73	71	72	71	71	71	71	70	71	69	70	71	72	72	69	67	65	64
1250	72	72	72	72	71	70	70	71	69	68	70	69	70	69	70	69	67	65	62	61
1600	73	74	74	74	72	71	72	71	72	70	70	72	73	72	72	71	68	66	62	61
2000	72	72	72	70	70	70	70	70	69	69	70	70	72	73	71	70	66	64	61	60
2500	71	71	71	69	68	68	68	68	67	67	69	69	71	71	71	69	66	62	60	59
3150	73	72	71	70	68	69	68	68	68	67	69	69	70	71	72	69	66	64	61	59
4000	72	71	69	68	67	66	66	67	65	65	67	68	69	69	70	68	65	62	60	58
5000	82	81	83	81	80	79	75	71	71	71	71	72	74	75	76	75	71	67	63	60
6300	79	79	78	77	76	74	74	74	71	72	73	73	74	75	76	75	71	68	66	65
8000	70	70	68	66	65	65	65	64	62	62	64	65	66	66	68	65	62	58	56	55
10000	71	71	70	68	67	65	63	63	59	59	61	62	63	63	64	62	57	54	51	51
OVERALL	94	93	93	92	92	91	91	91	91	91	93	93	91	93	94	92	90	86	84	84

TABLE 1 PERCEIVED NOISE LEVEL (PN03)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-130E AIRCRAFT																				
ENG. 750-A-7																				
GROUND RUNUP																				
OPERATION:																				
LOW IDLE, 800 IN-LBS																				
SINGLE ENGINE																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -6.0 DB																				
METEOROLOGY:																				
TEMP																				
AIRCRAFT CODE 006																				
OPERATION CODE 04011																				
PROFILE VERSION A																				
01 APR 76																				
PAGE 01																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-036																				
RUN 01																				
DISTANCE (FEET)																				
3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	106.7	106.0	106.5	104.9	103.9	103.4	101.6	99.5	99.0	100.6	100.6	101.3	102.1	103.0	102.0	99.1	95.5	93.6	92.6	
250	104.3	103.7	104.1	102.5	101.6	101.0	99.3	97.2	96.7	98.4	98.2	99.3	99.7	100.6	99.6	96.7	93.1	91.2	90.2	
315	101.9	101.3	101.7	100.1	99.1	98.6	96.9	94.8	94.3	96.2	96.0	96.5	97.3	98.2	97.2	94.5	90.7	88.7	87.7	
400	99.4	98.7	99.1	97.6	96.6	96.1	94.5	92.3	92.0	93.9	93.7	94.0	94.8	95.6	94.7	92.2	88.2	86.1	85.4	
500	96.7	96.1	96.4	94.9	94.0	93.4	91.3	89.9	89.6	91.6	91.4	91.3	92.5	93.1	91.9	89.0	85.8	83.6	83.0	
630	93.9	93.2	93.6	92.0	91.1	90.5	89.0	87.3	87.0	89.1	88.9	88.6	90.0	90.6	89.4	87.3	83.3	81.1	80.5	
800	90.8	90.1	90.4	88.9	88.0	87.4	85.9	84.5	84.1	86.3	86.1	85.8	87.2	87.8	86.8	84.7	80.7	78.5	77.9	
1000	87.5	86.8	87.1	85.6	84.7	84.1	82.7	81.4	81.0	83.1	82.8	83.0	84.0	84.7	84.0	81.9	77.9	75.7	75.1	
1250	83.8	83.1	83.4	82.0	81.0	80.5	79.7	78.5	78.0	79.7	79.4	80.1	80.8	81.7	80.8	78.8	74.8	72.7	72.0	
1600	80.5	79.4	79.4	78.6	77.2	76.9	76.6	75.4	74.9	76.0	75.7	77.3	77.7	78.6	77.8	75.8	71.6	69.6	68.7	
2000	77.3	76.0	76.1	75.3	73.8	73.5	73.3	72.1	71.0	72.5	72.0	73.7	74.4	75.4	74.5	72.6	68.4	66.4	65.5	
2500	73.2	72.0	72.0	71.3	69.7	69.5	69.3	68.1	67.0	68.5	68.5	69.7	70.4	71.3	70.5	68.6	64.3	62.3	61.5	
3150	68.7	67.4	67.4	66.8	65.2	64.3	64.8	63.6	63.1	63.9	63.7	65.1	66.3	66.9	66.2	64.1	59.6	58.1	57.3	
4000	63.5	62.4	62.4	61.8	59.9	59.7	59.6	58.4	57.9	58.8	58.9	60.2	61.6	62.3	61.5	59.0	54.4	53.4	52.6	
5000	57.8	57.2	56.6	56.3	54.6	54.0	54.4	53.1	52.3	53.4	53.6	55.1	56.5	57.1	56.4	53.9	49.0	48.0	47.3	
6300	52.2	51.6	51.0	50.7	48.9	48.0	48.7	47.4	46.5	47.6	47.8	49.5	51.0	51.7	51.0	48.4	42.6	41.7	40.9	
8000	47.7	46.8	46.0	46.0	44.0	42.7	44.0	42.3	41.2	42.4	42.8	44.6	46.3	47.1	46.4	43.5	37.4	36.3	35.5	
10000	42.7	41.4	40.5	40.6	37.8	37.2	37.5	36.2	35.2	36.2	36.6	38.5	40.8	41.8	40.6	37.9	30.8	30.7	29.8	
12500	36.4	34.7	34.4	34.4	30.8	30.7	31.5	29.1	28.5	29.6	29.8	31.4	34.0	35.0	33.8	31.7	23.5	23.0	21.2	
16000	29.8	27.8	27.9	27.6	23.5	23.7	23.8	21.1	19.8	16.2	19.6	23.8	26.6	27.8	27.3	23.7	14.2	13.7	11.3	
20000	22.1	18.6	19.5	16.9	12.2	12.9	13.0	8.3	7.7	6.9	9.5	14.2	15.4	17.5	17.5	14.3	4.9	4.4	1.5	
25000	9.5	9.4	6.9	6.2	.8	2.0	2.2					4.5	4.1	7.1	7.8	5.0				

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(G-130E / AIRCRAFT )										) OMEGA 8.2									
(ENG. 156-A-7 )										) TEST 74-004-036									
(GROUND RUNUP )										) RUN 01									
( )										) AIRCRAFT CODE 006									
( )										) OPERATION CODE 04011									
( )										) PROFILE VERSION A									
( )										) 01 APR 76									
( )										) PAGE E1									
METEOROLOGY: = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -6.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	138.9	108.2	109.7	107.6	106.7	106.4	103.4	103.4	100.8	100.4	102.1	102.5	103.5	104.1	103.6	100.2	96.8	94.9	94.0
250	106.5	105.8	107.3	105.3	104.3	104.0	101.1	98.5	98.1	99.3	99.7	100.2	101.1	101.8	101.2	97.9	94.4	92.5	91.6
315	104.1	103.4	104.9	102.9	101.9	101.6	98.7	96.1	95.7	97.7	97.5	97.7	98.7	99.3	98.8	95.6	92.0	90.0	89.1
400	101.6	100.9	102.4	100.4	99.4	99.1	96.2	93.6	93.4	95.4	95.2	95.2	96.2	96.8	96.2	93.3	89.5	87.4	86.8
500	95.9	98.2	99.7	97.7	96.7	96.4	93.6	91.2	91.0	93.0	92.9	92.5	93.9	94.2	93.5	90.9	87.1	84.9	84.4
630	96.1	95.3	96.8	94.8	93.9	93.5	90.7	88.7	88.4	90.6	90.4	89.8	91.4	91.8	91.0	88.4	84.6	82.4	81.8
800	93.0	92.3	93.7	91.7	90.8	90.4	87.7	85.8	85.5	87.8	87.6	87.0	88.6	89.0	88.3	85.9	82.0	79.8	79.2
1000	89.7	88.9	90.3	88.4	87.4	87.1	84.4	82.7	82.4	84.6	84.3	84.2	85.4	85.3	85.5	83.1	79.2	77.0	76.5
1250	86.0	85.3	86.7	84.8	83.8	83.5	81.5	79.8	79.4	81.1	80.9	81.3	82.2	82.3	82.4	79.9	76.1	74.0	73.3
1500	82.7	81.5	82.7	81.4	79.9	79.9	78.4	76.7	76.3	77.5	77.2	78.2	79.1	79.8	79.3	76.9	72.9	70.9	70.0
2000	79.5	78.2	79.3	78.1	76.6	76.6	75.1	73.4	73.1	74.0	73.5	74.9	75.8	76.5	76.0	73.7	69.7	67.7	66.8
2500	75.4	74.1	75.2	74.0	72.5	72.5	71.1	69.4	69.0	70.0	69.4	70.9	71.8	72.5	72.1	69.7	65.6	63.6	62.9
3100	70.9	69.6	70.7	69.6	68.0	68.0	66.6	64.9	64.5	65.4	65.2	66.3	67.7	68.1	67.8	65.2	60.9	59.4	58.7
4000	65.3	64.1	64.8	63.8	62.2	62.1	61.1	59.4	59.0	60.0	60.1	61.2	62.7	63.2	62.7	60.0	55.4	54.4	53.7
5000	59.1	58.5	58.5	57.9	56.3	55.8	55.4	53.9	53.2	54.3	54.5	55.8	57.3	57.8	57.4	54.6	49.8	48.8	48.1
6300	53.1	52.5	52.3	51.9	50.0	49.2	49.4	47.9	47.1	48.2	48.4	50.0	51.6	52.2	51.6	48.8	43.1	42.2	41.4
8000	48.1	47.3	46.8	46.5	44.8	43.3	44.3	42.6	41.5	42.7	43.1	44.9	46.6	47.3	46.7	43.7	37.7	36.5	35.8
10000	42.7	41.4	40.5	40.6	37.8	37.2	37.5	36.2	35.2	36.2	36.6	38.5	40.8	41.8	40.8	37.9	30.8	30.7	29.8
12500	36.4	34.7	34.4	34.4	30.8	30.7	31.2	29.1	28.5	29.6	29.8	31.4	34.0	35.0	33.0	31.7	23.5	23.0	21.2
16000	29.8	27.8	27.9	27.6	23.5	23.7	23.8	21.1	19.8	18.2	19.6	23.8	26.6	27.8	27.3	23.7	14.2	13.7	11.3
20000	22.1	18.8	19.5	16.9	12.2	12.9	13.0	8.3	7.7	6.9	9.5	14.2	15.4	17.5	17.5	14.3	4.9	4.4	1.5
25000	9.5	9.4	6.9	6.2	.8	2.0	2.2					4.5	4.1	7.1	7.8	5.0			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130E AIRCRAFT																			
ENG. T56-A-7																			
GROUND RUNUP																			
OPERATIONS:																			
LOW IDLE, 800 IN-LBS																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS =29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -6.0 DB																			
IDENTIFICATIONS:																			
OMEGA 8.2																			
TEST 74-064-036																			
RUN 01																			
AIRCRAFT CODE 006																			
OPERATION CODE 04011																			
PROFILE VERSION A																			
01 APR 76																			
PAGE F1																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	94.6	90.0	86.9	84.3	81.9	79.9	78.3	76.6	75.1	73.5	72.0	70.6	69.2	67.9	66.6	65.3	64.1	62.9	61.7
250	88.3	83.7	80.6	78.0	75.4	73.3	71.1	68.6	66.0	63.4	60.8	58.2	55.6	53.0	50.4	47.8	45.2	42.6	40.0
315	86.0	81.4	78.3	75.7	73.1	70.5	67.9	65.3	62.7	60.1	57.5	54.9	52.3	49.7	47.1	44.5	41.9	39.3	36.7
400	83.6	79.0	75.9	72.8	69.7	66.6	63.5	60.4	57.3	54.2	51.1	48.0	44.9	41.8	38.7	35.6	32.5	29.4	26.3
500	81.1	76.5	73.4	70.3	67.2	64.1	61.0	57.9	54.8	51.7	48.6	45.5	42.4	39.3	36.2	33.1	30.0	26.9	23.8
630	78.6	74.0	70.9	67.8	64.7	61.6	58.5	55.4	52.3	49.2	46.1	43.0	39.9	36.8	33.7	30.6	27.5	24.4	21.3
800	76.0	71.4	68.3	65.2	62.1	59.0	55.9	52.8	49.7	46.6	43.5	40.4	37.3	34.2	31.1	28.0	24.9	21.8	18.7
1000	73.4	68.8	65.7	62.6	59.5	56.4	53.3	50.2	47.1	44.0	40.9	37.8	34.7	31.6	28.5	25.4	22.3	19.2	16.1
1250	70.6	66.0	62.9	59.8	56.7	53.6	50.5	47.4	44.3	41.2	38.1	35.0	31.9	28.8	25.7	22.6	19.5	16.4	13.3
1600	67.8	63.2	60.1	57.0	53.9	50.8	47.7	44.6	41.5	38.4	35.3	32.2	29.1	26.0	22.9	19.8	16.7	13.6	10.5
2000	64.9	60.3	57.2	54.1	51.0	47.9	44.8	41.7	38.6	35.5	32.4	29.3	26.2	23.1	20.0	16.9	13.8	10.7	7.6
2500	61.7	57.1	54.0	50.9	47.8	44.7	41.6	38.5	35.4	32.3	29.2	26.1	23.0	19.9	16.8	13.7	10.6	7.5	4.4
3150	58.1	53.5	50.4	47.3	44.2	41.1	38.0	34.9	31.8	28.7	25.6	22.5	19.4	16.3	13.2	10.1	7.0	3.9	0.8
4000	54.2	49.6	46.5	43.4	40.3	37.2	34.1	31.0	27.9	24.8	21.7	18.6	15.5	12.4	9.3	6.2	3.1	0.0	-3.1
5000	49.9	45.3	42.2	39.1	36.0	32.9	29.8	26.7	23.6	20.5	17.4	14.3	11.2	8.1	5.0	1.9	-1.2	-4.3	-7.4
6300	45.4	40.8	37.7	34.6	31.5	28.4	25.3	22.2	19.1	16.0	12.9	9.8	6.7	3.6	0.5	-2.6	-5.7	-8.8	-11.9
8000	41.7	37.1	34.0	30.9	27.8	24.7	21.6	18.5	15.4	12.3	9.2	6.1	3.0	-0.1	-3.2	-6.3	-9.4	-12.5	-15.6
10000	37.7	33.1	30.0	26.9	23.8	20.7	17.6	14.5	11.4	8.3	5.2	2.1	-1.0	-4.1	-7.2	-10.3	-13.4	-16.5	-19.6
12500	33.4	28.8	25.7	22.6	19.5	16.4	13.3	10.2	7.1	4.0	0.9	-2.2	-5.3	-8.4	-11.5	-14.6	-17.7	-20.8	-23.9
15000	28.8	24.2	21.1	18.0	14.9	11.8	8.7	5.6	2.5	-0.6	-3.7	-6.8	-9.9	-13.0	-16.1	-19.2	-22.3	-25.4	-28.5
20000	23.8	19.2	16.1	13.0	9.9	6.8	3.7	0.6	-2.5	-5.6	-8.7	-11.8	-14.9	-18.0	-21.1	-24.2	-27.3	-30.4	-33.5
25000	18.5	13.9	10.8	7.7	4.6	1.5	-1.6	-4.7	-7.8	-10.9	-14.0	-17.1	-20.2	-23.3	-26.4	-29.5	-32.6	-35.7	-38.8

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																							
1/3 OCTAVE BAND																							
DISTANCE = 250 FEET																							
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 006																							
C-130E AIRCRAFT (IDLE, 1400 IN-LBS)) TEMP = 59 F) OPERATION CODE 04013																							
ENG. T56-A-7 (SINGLE ENGINE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																							
GROUND RUNUP ()) REL HUMID = 70 %) 01 APR 76																							
()) DELTA N = -6.0 DB) PAGE C2																							
BAND CENTER																							
FREQ (HZ)																							
50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	3150	4000	5000	6300	8000	10000	OVERALL
72	84	76	77	91	88	91	90	94	92	87	89	84	81	81	81	80	78	75	74	74	82	68	100
73	87	77	77	92	87	91	91	94	93	88	89	84	83	83	82	81	78	75	74	74	73	68	101
72	84	76	76	91	86	90	88	93	86	87	84	82	82	79	79	78	78	76	75	75	73	67	99
71	86	75	75	88	84	85	84	88	85	82	81	79	78	78	79	79	79	77	75	75	72	64	98
69	87	74	74	88	87	86	86	91	83	80	79	77	77	78	78	78	78	75	74	74	70	64	97
71	90	76	76	88	87	87	86	89	85	82	82	82	82	79	79	79	78	75	75	75	72	64	96
70	89	77	77	85	87	89	89	88	84	81	80	78	78	76	76	76	76	74	74	74	70	64	96
71	91	78	78	85	88	90	90	82	82	78	77	77	77	75	75	75	75	73	73	73	68	61	96
73	88	79	79	82	87	88	86	89	86	84	83	82	82	79	77	77	77	75	75	75	72	61	98
73	87	80	82	87	89	95	90	89	86	80	80	80	80	78	76	76	76	74	74	74	68	62	100
73	88	78	81	88	90	97	92	88	83	79	78	78	78	78	76	76	76	74	74	74	68	62	96
71	89	77	77	82	84	84	82	82	82	78	77	77	77	75	75	75	75	73	73	73	66	59	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	58	96
71	91	75	75	85	87	87	86	88	85	82	81	80	80	78	77	77	77	75	75	75	66	55	96
71	91	74	74	85	87	89	88	88	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	89	77	77	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88	76	76	82	86	86	84	84	83	80	79	78	78	76	76	76	76	74	74	74	66	55	96
70	88																						

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130E AIRCRAFT																			
ENG. T56-A-7																			
GROUND RUNUP																			
OPERATION:																			
IDLE, 1400 IN-LBS																			
SINGLE ENGINE																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -6.0 DB																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -6.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-036																			
RUN 02																			
AIRCRAFT CODE 006																			
OPERATION CODE 04013																			
PROFILE VERSION A																			
01 APR 76																			
PAGE 02																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	115.5	113.5	109.5	106.7	107.5	106.6	106.1	105.2	104.7	104.2	105.0	104.9	107.4	107.9	107.9	104.7	98.7	97.1	96.4
250	108.4	106.3	107.4	106.5	105.4	104.4	103.9	103.0	101.5	102.0	102.8	102.7	105.2	105.7	105.8	102.6	96.5	94.9	94.2
315	106.1	104.1	105.2	104.3	103.2	102.2	101.7	100.6	99.2	99.8	100.6	100.4	103.0	103.6	103.6	100.4	94.3	92.7	92.0
400	103.9	103.8	103.9	102.1	100.9	100.0	99.5	98.5	96.9	97.5	98.3	98.1	100.7	101.3	101.3	98.1	92.1	90.4	89.7
510	101.5	101.5	100.7	99.7	98.6	97.6	97.1	96.2	94.4	95.1	95.8	95.7	98.2	98.8	98.9	95.8	89.7	88.1	87.4
630	99.1	99.1	98.2	97.3	96.1	95.2	94.7	93.7	91.7	92.4	93.2	93.3	95.6	96.2	96.3	93.4	87.3	85.6	84.9
800	96.6	96.6	95.7	94.8	93.6	92.7	92.1	91.1	89.1	89.7	90.4	90.7	93.0	93.5	93.6	91.0	84.8	83.1	82.4
1000	93.9	93.9	93.1	92.2	91.0	90.1	89.4	88.4	86.1	86.7	87.5	87.9	90.3	90.6	90.8	88.3	82.2	80.4	79.7
1250	91.9	91.9	90.9	89.1	87.9	86.9	86.4	85.3	83.1	83.5	84.3	84.8	87.1	87.7	88.0	85.3	79.2	77.4	76.8
1500	89.9	89.9	88.9	87.1	85.9	84.9	84.4	83.3	81.1	81.5	82.3	82.8	85.1	85.7	86.0	83.3	77.2	75.4	74.8
2000	84.6	84.6	83.8	82.8	81.3	80.0	79.9	78.6	76.4	77.3	77.8	78.3	80.5	81.6	81.9	78.4	72.9	70.7	70.8
2500	81.0	81.0	80.0	78.9	77.4	76.0	75.9	74.7	72.6	73.0	73.8	74.3	76.5	77.7	78.0	74.5	69.0	67.2	66.8
3150	76.7	76.4	75.7	74.6	73.1	71.5	71.0	70.6	68.4	69.1	69.4	70.1	72.1	73.3	73.6	70.2	64.8	63.1	62.5
4000	72.2	72.1	71.0	69.9	68.3	66.8	66.9	66.1	63.8	64.2	64.9	65.6	67.3	68.4	68.7	65.8	60.3	58.3	57.4
5000	67.3	67.3	66.1	65.1	63.3	61.9	61.9	61.1	58.7	59.5	59.8	60.0	62.3	63.0	63.3	60.8	55.4	53.4	52.4
6300	62.3	62.3	61.1	60.0	58.2	56.7	56.0	55.0	52.4	53.4	54.6	55.4	57.3	57.8	57.8	55.7	50.1	47.9	46.7
8000	58.3	58.2	57.1	55.8	53.9	52.4	52.4	51.4	48.3	49.7	49.9	50.3	52.6	53.5	53.6	51.5	45.5	43.3	42.0
10000	53.7	53.7	52.6	51.3	49.2	47.7	47.3	46.4	43.5	44.2	44.5	45.6	47.7	48.8	49.3	46.8	40.2	38.0	36.4
12500	48.6	48.6	47.4	46.1	43.3	42.3	41.7	40.4	37.6	38.1	38.5	39.9	42.1	43.0	43.4	41.2	35.9	32.4	30.5
16000	42.6	42.6	41.4	40.1	37.3	35.7	34.7	33.3	30.3	31.3	31.5	32.8	35.7	37.3	37.9	35.9	30.6	27.6	25.6
20000	36.2	35.9	35.0	33.7	31.1	28.8	27.0	24.5	20.9	22.8	22.5	23.9	26.7	28.4	29.2	27.2	21.8	18.1	16.2
25000	28.1	28.4	27.6	26.2	23.3	21.3	17.7	13.4	7.3	10.7	8.3	12.9	19.4	23.5	24.1	17.6	8.7	2.7	

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130E AIRCRAFT																			
ENG. T56-A-7																			
GROUND RUNUP																			
OPERATIONS:																			
IDLE, 14.0 IN-LBS																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = -6.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	112.1	112.0	111.2	110.2	108.9	106.8	104.2	101.1	97.4	93.7	89.4	84.2	78.5	72.7	66.9	61.1	55.3	49.5	43.7
250	109.9	109.9	109.1	108.0	106.7	105.0	102.7	100.0	96.7	93.0	88.7	83.5	77.8	72.0	66.2	60.4	54.6	48.8	43.0
315	107.7	107.7	106.9	105.8	104.5	102.6	100.1	96.9	93.2	89.0	84.2	78.9	73.1	67.3	61.5	55.7	49.9	44.1	38.3
400	105.4	105.4	104.6	103.6	102.3	100.3	97.6	94.4	90.7	86.5	81.7	76.4	70.6	64.8	59.0	53.2	47.4	41.6	35.8
500	103.1	103.1	102.3	101.3	99.9	97.9	95.0	91.5	87.7	83.5	78.7	73.4	67.6	61.8	56.0	50.2	44.4	38.6	32.8
630	100.6	100.7	99.9	98.8	97.5	95.6	92.6	88.9	84.7	80.4	75.6	70.3	64.5	58.7	52.9	47.1	41.3	35.5	29.7
800	98.1	98.1	97.4	96.3	95.0	93.1	90.2	86.5	82.3	78.0	73.2	67.9	62.6	56.8	51.0	45.2	39.4	33.6	27.8
1000	95.5	95.5	94.7	93.7	92.3	90.4	87.5	83.8	79.6	75.3	70.5	65.2	59.9	54.1	48.3	42.5	36.7	30.9	25.1
1250	92.4	92.4	91.6	90.6	89.3	87.4	84.5	80.8	76.6	72.3	67.5	62.2	56.9	51.1	45.3	39.5	33.7	27.9	22.1
1600	89.4	89.4	88.5	87.4	85.9	84.0	81.1	77.4	73.2	68.9	64.6	59.3	54.0	48.2	42.4	36.6	30.8	25.0	19.2
2000	86.3	86.3	85.4	84.3	82.7	80.8	77.9	74.2	70.0	65.7	61.4	56.1	50.8	45.0	39.2	33.4	27.6	21.8	16.0
2500	82.5	82.5	81.6	80.4	78.8	76.9	74.0	70.3	66.1	61.8	57.5	53.2	47.9	42.1	36.3	30.5	24.7	18.9	13.1
3150	78.2	78.2	77.3	76.1	74.5	72.6	69.7	66.0	61.8	57.5	53.2	48.9	44.6	39.8	34.0	28.2	22.4	16.6	10.8
4000	73.4	73.4	72.5	71.3	69.7	67.8	64.9	61.2	57.0	52.7	48.4	44.1	39.8	35.5	31.2	26.9	21.6	15.3	9.0
5000	68.2	68.2	67.3	66.1	64.5	62.6	59.7	56.0	51.8	47.5	43.2	38.9	34.6	30.3	26.0	21.7	15.4	9.1	2.8
6300	62.9	62.9	62.0	60.8	59.2	57.2	54.3	50.6	46.4	42.1	37.8	33.5	29.2	24.9	20.6	16.3	10.0	3.7	-2.5
8000	58.6	58.6	57.7	56.5	54.9	52.9	49.9	46.2	42.0	37.7	33.4	29.1	24.8	20.5	16.2	11.9	5.6	-0.7	-6.9
10000	53.7	53.7	52.8	51.6	49.9	47.9	45.0	41.3	37.1	32.8	28.5	24.2	19.9	15.6	11.3	7.0	2.7	-3.6	-9.8
12500	48.6	48.6	47.7	46.5	44.8	42.8	40.0	36.3	32.0	27.7	23.4	19.1	14.8	10.5	6.2	1.9	-2.4	-8.7	-14.9
16000	42.8	42.8	41.9	40.7	39.0	37.0	34.2	30.5	26.2	21.9	17.6	13.3	9.0	4.7	0.4	-3.9	-10.2	-16.5	-22.8
20000	36.2	36.2	35.3	34.1	32.4	30.4	27.6	23.9	19.6	15.3	11.0	6.7	2.4	-1.9	-7.2	-13.5	-19.8	-26.1	-32.4
25000	28.1	28.1	27.2	26.0	24.3	22.3	19.5	15.8	11.5	7.2	2.9	-1.4	-7.7	-14.0	-20.3	-26.6	-32.9	-39.2	-45.5

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(C-130E AIRCRAFT																
(ENG. T56-A-7																
(GROUND RUNUP																
() IDENTIFICATION:																
() OMEGA 8.2																
() TEST 74-004-036																
() RUN 02																
() AIRCRAFT CODE 005																
() OPERATION CODE 0013																
() PROFILE VERSION A																
() 01 APR 76																
() PAGE F2																
METEOROLOGY:																
() TEMP = 59 F																
() BAR PRESS = 29.92 IN HG																
() REL HUMID = 73 %																
() DELTA N = -6.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	97.4	97.3	96.5	95.4	94.1	92.8	92.5	91.6	89.7	87.1	83.8	81.2	78.1	73.5	68.2	63.4
250	95.3	95.2	94.4	93.3	92.0	90.7	90.4	89.5	87.5	85.0	81.7	78.9	75.4	71.7	67.3	63.1
315	93.2	93.1	92.3	91.2	89.9	88.6	88.3	87.4	85.4	82.9	79.6	76.7	73.0	69.1	65.7	62.4
400	91.0	90.9	90.1	89.0	87.7	86.5	86.1	85.2	83.2	80.7	77.4	74.5	70.8	67.3	64.1	61.0
500	88.8	88.7	87.9	86.8	85.5	84.3	83.9	83.0	80.9	78.4	75.1	72.2	68.5	65.0	61.7	58.6
630	86.6	86.5	85.7	84.6	83.3	82.0	81.6	80.7	78.6	76.2	72.8	69.9	66.2	62.7	59.4	56.2
800	84.3	84.2	83.4	82.3	81.0	79.7	79.3	78.4	76.2	73.8	70.4	67.5	63.8	60.3	57.0	53.8
1000	81.9	81.9	81.1	80.0	78.6	77.3	76.9	76.0	73.7	71.3	67.9	64.9	61.2	57.7	54.4	51.2
1250	79.4	79.3	78.6	77.4	76.0	74.7	74.4	73.4	71.1	68.7	65.3	62.3	58.6	55.3	52.0	48.8
1500	76.8	76.7	75.9	74.8	73.3	71.9	71.7	70.7	68.4	66.0	62.6	59.6	55.9	52.6	49.3	46.1
2000	74.1	74.0	73.2	72.1	70.5	69.1	68.9	67.9	65.6	63.2	59.8	56.8	53.1	49.8	46.5	43.3
2500	71.0	70.9	70.1	68.9	67.3	65.9	65.7	64.8	62.5	60.1	56.7	53.7	50.0	46.7	43.4	40.2
3150	67.6	67.5	66.7	65.5	63.9	62.4	62.2	61.4	59.1	56.7	53.3	50.3	46.6	43.3	40.0	36.8
4000	63.8	63.7	62.9	61.6	60.0	58.5	58.4	57.7	55.4	53.0	49.6	46.6	43.0	39.7	36.4	33.2
5000	59.5	59.4	58.6	57.4	55.7	54.2	54.1	53.4	51.2	48.8	45.4	42.4	38.8	35.5	32.2	29.0
6300	55.0	55.0	54.1	52.9	51.2	49.7	49.0	48.0	45.8	43.4	40.0	37.0	33.4	30.1	26.8	23.6
8000	51.3	51.3	50.4	49.2	47.4	45.9	45.7	45.1	42.9	40.5	37.1	34.1	30.5	27.2	23.9	20.6
10000	47.3	47.3	46.5	45.2	43.3	41.7	41.6	40.8	38.6	36.2	32.8	29.8	26.2	22.9	19.6	16.4
12500	42.9	42.9	42.1	40.9	38.8	37.4	37.1	36.3	34.1	31.7	28.3	25.3	21.7	18.4	15.1	11.9
15000	38.1	38.0	37.4	36.2	34.1	32.7	32.4	31.4	29.2	26.8	23.4	20.4	16.8	13.5	10.2	7.0
20000	32.9	32.8	32.3	31.1	29.0	27.6	27.3	26.1	24.0	21.6	18.2	15.2	11.6	8.3	5.0	1.8
25000	27.3	27.4	26.7	25.5	23.5	22.2	21.8	20.5	18.0	15.0	11.6	8.6	5.2	1.9	-1.4	-4.7

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECTS																
C-130E AIRCRAFT																
ENGINE 156-A-7																
GROUND RUNUP																
OPERATIONS																
ICL, 1400 IN-LDS																
SINGLE ENGINE																
METEOROLOGY																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -8.0 DB																
IDENTIFICATIONS																
OMEGA 8.2																
TEST 74-004-836																
RUN 02																
AIRCRAFT CODE 006																
OPERATION CODE 04013																
PROFILE VERSION A																
01 APR 76																
PAGE 62																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	98.9	98.8	98.1	96.9	95.5	94.2	93.0	92.6	90.8	91.6	92.4	92.3	94.5	95.0	94.8	92.0
250	96.8	96.7	96.4	94.8	93.4	92.1	91.5	90.5	88.7	89.4	90.3	90.2	92.4	92.9	92.7	89.9
315	94.7	94.6	94.9	92.7	91.3	90.0	89.4	88.3	86.5	87.3	88.1	88.0	90.2	90.8	90.7	87.8
400	92.5	92.5	91.8	90.5	89.1	87.8	87.2	86.2	84.3	85.1	85.9	85.8	88.0	88.6	88.5	85.7
500	90.3	90.3	89.6	88.4	86.9	85.6	85.0	83.9	82.1	82.8	83.6	83.6	85.8	86.4	86.3	83.6
630	88.1	88.0	87.3	86.1	84.7	83.4	82.8	81.7	79.7	80.5	81.3	81.3	83.5	84.1	84.0	81.4
800	85.8	85.8	85.1	83.9	82.4	81.1	80.4	79.3	77.4	78.1	78.9	78.9	81.1	81.8	81.7	79.1
1000	83.5	83.4	82.7	81.5	80.0	78.7	78.1	76.9	74.3	75.6	76.4	76.5	78.7	79.4	79.3	76.8
1250	81.9	81.9	81.2	79.8	77.4	76.1	75.5	74.4	72.3	73.0	73.8	73.9	76.1	76.8	76.7	74.2
1600	78.3	78.3	77.6	76.3	74.7	73.3	72.8	71.7	69.6	70.4	71.1	71.2	73.3	74.2	74.1	71.5
2000	75.6	75.6	74.9	73.6	72.9	70.4	70.0	68.9	66.8	67.6	68.3	68.4	70.4	71.4	71.3	68.8
2500	72.5	72.5	71.7	70.4	68.7	67.3	66.8	65.7	63.7	64.5	65.2	65.3	67.2	68.2	68.0	65.6
3150	69.1	69.1	68.3	67.0	65.2	63.8	63.3	62.4	60.3	61.2	61.8	62.0	63.7	64.7	64.4	62.2
4000	65.0	65.0	64.2	62.9	61.1	59.8	59.3	58.4	56.1	57.2	57.8	58.0	59.5	60.5	60.2	57.3
5000	60.4	60.4	59.6	58.3	56.5	55.0	54.8	54.0	51.9	52.8	53.3	53.6	54.9	55.9	55.6	53.7
6300	55.7	55.6	54.8	53.5	51.8	50.2	50.0	49.4	47.3	48.1	48.6	48.9	50.2	51.1	50.8	49.1
8000	51.6	51.6	50.8	49.5	47.6	46.1	45.9	45.3	43.1	43.9	44.3	44.8	46.1	47.1	47.0	45.3
10000	47.3	47.3	46.5	45.2	43.3	41.7	41.6	40.8	38.6	39.3	39.7	40.4	41.7	42.8	42.9	41.3
12500	42.9	42.9	42.1	40.9	38.8	37.4	37.1	36.3	34.0	34.7	35.1	35.8	37.4	38.5	38.7	37.0
16000	38.1	38.2	37.4	36.2	34.1	32.7	32.4	31.4	29.2	29.7	30.2	31.0	32.8	33.9	34.2	32.4
20000	32.9	33.0	32.1	31.1	29.0	27.6	27.3	26.1	24.0	24.4	25.0	25.8	27.8	29.0	29.4	27.4
25000	27.3	27.4	26.7	25.5	23.5	22.2	21.8	20.5	18.6	19.0	19.6	20.2	22.6	23.8	24.3	22.0

TABLE NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-130 AIRCRAFT
 ENG. T56-A-7
 GROUND RUNUP
 IDENTIFICATION:
 UMEGA 8.2
 TEST 74-804-036
 RUN 02
 AIRCRAFT CODE 185
 OPERATION CODE 14313
 PROFILE DESIGN A
 01 APR 76
 PAGE J2
 METEOROLOGICAL:
 TEMP = 53 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 73 %
 DELTA N = -6.0 DB
 OPERATIONS:
 IDLE, 1400 IN-LBS
 SINGLE ENGINE
 P=PNLT
 A=AL
 T=ALT

ANGLE IN DEGREES	0	10	20	30	40	50	60	70	80	90	100	110	120
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
C-130 AIRCRAFT																			
ENG. T56-A-7																			
GROUND RUNUP																			
OPERATION:																			
POWER RUNUP, 9600 IN-LBS																			
SINGLE ENGINE																			
FREE FLOW																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA N = -6.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-J36																			
RUN C3																			
AIRCRAFT CODE 006																			
OPERATION CODE 04009																			
PROFILE VERSION A																			
01 APR 76																			
PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	70	71	70	71	71	72	75	77	78	78	78	78	75	74	73	66	59	53	
63	88	85	90	87	90	91	97	103	104	105	105	102	97	94	88	81	74	68	
80	78	76	79	77	79	81	82	86	91	92	93	90	86	82	78	71	65	58	
100	76	75	73	72	74	74	75	75	75	76	77	78	78	76	72	65	59	52	
125	61	60	58	57	59	63	61	67	70	73	75	78	85	80	73	66	60	53	
160	80	79	76	75	76	78	81	83	83	82	82	82	82	80	70	63	57	50	
200	79	79	76	77	77	82	79	80	81	80	81	79	80	79	68	61	55	48	
250	81	78	78	80	78	82	80	79	81	80	80	81	81	80	68	61	55	48	
315	64	80	80	81	80	87	83	84	83	84	82	82	83	81	72	65	58	52	
400	80	81	80	78	79	85	79	77	81	82	79	81	81	77	70	64	57	50	
500	79	78	80	80	79	87	80	78	82	82	80	81	81	78	72	65	58	52	
630	81	81	80	79	78	83	79	76	81	81	79	79	78	75	70	64	57	50	
800	78	79	77	77	78	83	78	76	79	81	78	77	78	74	70	64	57	50	
1000	80	79	79	77	76	81	76	75	78	80	76	75	75	73	69	62	56	49	
1250	77	77	77	76	76	79	76	76	78	78	75	75	74	72	67	61	54	47	
1600	78	78	77	77	78	81	78	78	79	78	76	77	76	74	68	61	54	47	
2000	78	78	77	76	78	79	78	77	78	77	75	76	75	73	66	59	53	46	
2500	79	79	79	77	78	78	77	76	77	75	74	75	73	72	65	58	52	45	
3150	79	78	79	77	78	78	78	78	78	75	74	74	74	72	66	59	52	46	
4000	76	77	77	76	77	77	77	76	76	72	73	72	71	69	63	57	50	43	
5000	76	76	77	75	76	77	76	76	75	73	72	71	69	62	56	49	42	35	
6300	77	77	78	76	76	75	74	74	72	70	70	68	68	60	54	47	40	33	
8000	80	81	82	79	77	76	74	73	71	69	70	70	67	65	58	52	45	38	
10000	70	71	72	70	70	70	70	69	68	67	67	68	67	65	57	51	44	37	
OVERALL	94	93	94	92	94	96	98	104	104	105	106	102	98	95	89	82	76	69	
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNOL)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-130E AIRCRAFT																
ENG. 756-A-7																
GROUND RUNUP																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-036																
RUN 03																
AIRCRAFT CODE 806																
OPERATION CODE 04009																
PROFILE VERSION A																
01 APR 76																
PAGE 03																
METEOROLOGICAL DATA:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 73 %																
DELTA M = -6.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	106.6	106.2	106.5	105.1	105.8	107.5	106.3	105.9	108.4	108.1	107.6	107.9	106.3	104.1	101.5	95.0
250	104.3	104.0	104.2	102.8	103.5	105.3	104.0	103.6	106.2	106.0	105.4	105.8	104.2	102.0	99.3	92.0
315	102.6	101.6	101.9	100.5	101.2	103.0	101.7	101.3	104.0	103.8	103.3	103.6	102.0	99.8	97.1	90.6
400	99.6	99.2	99.4	98.0	98.8	100.6	99.3	98.9	101.8	101.6	101.1	101.4	99.8	97.5	94.9	88.0
500	97.0	96.7	96.8	95.5	96.2	98.1	96.7	96.4	99.5	99.3	98.8	99.2	97.5	95.2	92.5	85.5
630	94.4	94.4	94.1	92.8	93.5	95.4	94.1	93.7	97.1	97.0	96.5	96.8	95.1	92.8	90.0	82.5
800	91.6	91.2	91.2	89.9	90.6	92.7	91.2	91.0	94.7	94.5	94.1	94.4	92.6	90.3	87.3	80.0
1000	88.6	88.2	88.2	86.0	87.6	90.0	88.2	89.2	92.1	92.0	91.6	91.3	89.0	87.6	84.4	77.2
1250	85.5	85.1	85.0	83.7	84.4	87.1	85.0	85.2	88.5	88.4	88.0	87.5	85.2	83.9	80.9	74.2
1500	82.0	81.6	81.5	80.2	81.0	84.1	81.4	81.4	84.8	84.1	83.7	83.2	80.9	79.6	77.7	70.8
2000	78.3	77.9	77.8	76.6	77.3	81.0	77.8	77.3	82.0	82.0	81.7	81.2	78.8	76.8	74.0	67.4
2500	74.2	73.8	73.7	72.4	73.2	77.5	73.8	73.4	77.4	77.4	77.0	76.5	73.2	72.8	70.4	63.8
3150	69.9	69.4	69.2	68.4	68.8	73.5	69.5	69.1	72.3	72.4	71.8	71.3	68.5	68.2	65.2	59.5
4000	65.4	64.9	64.5	63.8	64.1	69.0	64.8	64.3	66.3	66.3	65.9	65.4	62.9	62.9	60.5	54.6
5000	60.4	59.9	59.4	58.8	58.9	64.1	59.6	59.1	61.7	61.7	61.3	60.5	58.9	58.8	56.3	50.7
6300	55.1	54.6	53.9	53.3	53.2	58.9	54.1	53.2	56.4	56.5	56.4	55.1	53.5	53.3	50.7	42.8
8000	50.3	49.8	49.3	48.6	48.5	54.8	49.3	48.0	52.0	52.0	51.9	50.7	50.0	48.7	45.8	37.6
10000	44.7	44.2	43.9	43.1	42.9	50.0	43.9	42.4	47.1	47.1	46.9	45.7	44.8	43.6	40.3	32.0
12500	38.5	37.8	37.7	37.2	36.6	44.7	38.0	36.1	40.9	41.3	41.3	39.7	38.8	37.5	34.0	24.6
15000	31.3	30.8	31.1	30.2	30.3	38.2	31.3	29.9	34.9	34.9	34.9	33.1	32.3	30.3	26.8	13.0
20000	21.2	20.6	21.7	20.2	19.9	31.4	21.0	17.9	26.8	26.7	23.6	25.6	24.0	21.3	15.3	3.0
25000	11.2	10.4	8.8	7.3	7.0	22.7	8.2	6.9	13.4	15.1	15.5	16.7	10.9	7.3	3.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
(OPERATION:																				
(POWER KUNUP, 3600 IP-LBS																				
(SINGLE ENGINE																				
(FREE FLOW																				
(
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = -6.0 DB																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-036																				
RUN 03																				
AIRCRAFT CODE 006																				
OPERATION CODE 04009																				
PROFILE VERSION A																				
01 APR 76																				
PAGE E3																				
DISTANCE																				
ANGLE (DEGREES)																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	107.7	107.5	107.6	106.1	106.5	108.7	107.1	107.4	110.2	109.0	108.9	108.7	107.1	104.9	101.5	95.0	88.2	81.2	74.3	
250	105.4	105.2	105.3	103.0	104.3	106.5	104.8	105.2	108.1	106.8	106.6	105.0	102.7	99.3	92.8	85.9	78.9	71.9		
315	103.1	102.9	103.0	101.5	101.9	104.2	102.5	102.8	105.9	105.5	104.6	102.8	100.5	97.1	90.6	83.5	76.5	69.5		
400	100.6	100.4	100.5	99.0	99.5	101.8	100.1	100.4	103.7	103.3	102.5	100.6	98.3	94.9	88.0	81.0	74.1	67.0		
500	98.1	97.9	97.9	96.4	96.9	99.3	97.5	97.9	101.4	101.1	100.2	98.3	96.0	92.5	85.5	78.5	71.5	64.4		
630	95.4	95.3	95.2	93.7	94.2	96.5	94.9	95.3	99.0	98.7	97.9	97.6	95.9	93.6	87.0	80.0	73.0	65.9	58.7	
800	92.6	92.4	92.3	90.9	91.3	93.9	92.0	92.6	96.5	96.3	95.4	95.2	93.4	91.1	87.3	80.0	73.0	65.9	58.7	
1000	89.7	89.5	89.3	87.8	88.3	91.2	89.0	89.8	94.0	93.8	93.0	92.8	90.9	88.4	84.4	77.2	70.1	62.9	55.4	
1250	86.5	86.3	86.1	84.7	85.1	88.4	85.8	86.7	91.3	91.1	90.3	90.2	88.3	85.4	81.4	74.2	66.8	59.6	51.7	
1500	83.1	82.9	82.6	81.2	81.7	85.3	82.2	82.9	88.0	87.8	87.0	86.9	84.7	81.7	77.7	70.8	63.6	56.2	47.8	
2000	79.4	79.2	78.9	77.5	78.0	82.2	78.6	78.9	83.8	83.7	83.0	83.0	80.6	77.6	74.0	67.4	60.2	52.5	43.6	
2500	75.3	75.1	74.8	73.4	73.9	78.7	74.6	75.0	79.2	79.1	78.4	78.3	76.0	73.6	70.4	63.8	56.4	48.1	39.2	
3150	71.0	70.7	70.3	69.3	69.5	74.7	70.3	70.7	74.1	74.1	73.2	73.1	70.9	69.3	66.2	59.5	51.9	43.0	34.1	
4000	66.2	65.9	65.4	64.6	64.6	70.0	65.4	65.6	68.3	68.2	67.0	67.0	65.6	64.5	61.5	54.6	46.0	37.8	28.9	
5000	61.0	60.7	60.4	59.4	59.3	64.8	60.1	60.0	62.8	62.8	60.8	61.0	60.4	59.3	56.3	48.8	40.4	31.1	24.7	
6300	55.5	55.1	54.4	53.7	53.4	59.4	54.4	53.9	57.1	57.2	55.0	55.4	54.							

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT																
C-130 AIRCRAFT																
ENG. T56-A-7																
GROUND RUNUP																
DISTANCE (FEET)																
ANGLE (DEGREES)																
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																
200	92.3	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
250	90.0	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
315	87.7	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
400	85.4	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
500	83.0	82.8	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
630	80.6	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
800	78.1	77.8	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
1000	75.9	75.2	75.0	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
1250	72.9	72.5	72.3	71.5	71.7	71.7	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
1600	70.1	69.8	69.5	68.7	68.9	68.9	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
2000	67.2	66.9	66.7	65.9	66.0	66.0	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
2500	64.1	63.9	63.6	62.8	62.9	62.9	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
3150	60.8	60.6	60.3	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
4000	57.1	56.9	56.6	55.9	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
5000	52.9	52.4	52.5	51.8	51.6	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
6300	48.5	48.4	48.1	47.4	47.2	47.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
8000	44.4	44.3	44.0	43.3	43.1	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
10000	40.4	40.3	40.0	39.3	39.1	39.1	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
12500	35.3	35.1	34.9	34.3	34.0	34.0	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
16000	30.1	29.9	29.8	29.2	29.9	29.9	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
20000	24.6	24.2	24.2	23.6	23.4	23.4	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
25000	18.6	18.0	18.2	17.5	17.5	17.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)														
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
NOISE SOURCE/SUBJECT: (OPERATIONS:) METEOROLOGY:) AIRCRAFT CODE 306														
C-130E AIRCRAFT (POWER RUNUP, 9600 IN-LBS)) TEMP = 59 F) OPERATION CODE 04309														
ENG. 150-A-7 (SINGLE ENGINE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A														
GROUND RUNUP (FREE FLOW)) REL HUMID = 73 %) 01 APR 75														
() DELTA H = -6.0 DB) PAGE G3														
IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OMEGA 8.2														
) TEST 74-004-036														
) RUN 03														
) IDENTIFICATION:) OME														

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

C-130E AIRCRAFT

ENG. T56-A-7

GROUND RUNUP

OPERATIONS:

POWER RUNUP, 9600 IN-LBS

SINGLE ENGINE

FREE FLOW

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-036

RUN 03

AIRCRAFT CODE 006

OPERATION CODE 04009

PROFILE VERSION A

01 APR 76

PAGE J3

	P=PNLT										I=ALT									
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
0																				
10																				
20																				
30																				
40																				
50																				
60																				
70																				
80																				
90																				
100																				
110																				
120																				
130																				
140																				
150																				
160																				
170																				
180																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 006																			
C-130E AIRCRAFT (TAKEOFF POWER) TEMP = 59 F) OPERATION CODE J4030																			
ENG. T56-A-7 (16800 IN-LBS) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP (SINGLE ENGINE) REL HUMID = 70 %) 01 APR 76																			
(DELTA N = -6.0 DB) PAGE C4																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-036																			
RUN 04																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	77	78	77	77	78	78	80	81	83	82	86	83	81	79	79	73	66	59	
63	87	92	93	91	99	99	103	106	108	105	112	109	102	96	86	81	74	68	
80	81	83	84	82	87	88	91	94	96	94	100	97	90	86	79	72	65	59	
100	82	82	81	80	80	80	81	81	80	81	83	83	84	83	74	68	61	54	
125	88	89	87	87	86	88	93	97	101	99	95	90	92	89	83	76	69	63	
160	87	87	86	85	85	84	87	89	92	91	90	87	87	84	73	66	60	53	
200	86	89	86	89	88	85	84	86	85	86	86	85	84	81	71	65	58	51	
250	88	90	91	92	89	88	87	86	85	85	87	86	87	81	69	63	56	49	
315	88	91	91	93	90	91	88	87	88	88	89	88	87	84	73	66	59	53	
400	86	87	88	86	87	88	86	86	85	84	85	86	85	82	71	65	58	51	
500	86	88	88	87	87	88	88	85	85	85	86	86	84	80	70	64	57	50	
630	86	87	86	86	86	86	86	85	85	85	84	84	83	80	71	64	58	51	
800	85	87	85	85	84	84	84	84	84	82	83	83	82	81	78	71	64	58	
1000	84	86	84	84	84	84	85	86	84	2	83	82	82	80	72	65	58	52	
1250	83	85	84	84	85	87	87	87	85	82	83	81	82	79	78	69	62	56	
1600	86	87	88	88	88	89	91	89	87	84	83	82	82	80	78	69	62	55	
2000	86	86	88	87	88	87	83	86	85	82	81	81	80	79	76	67	60	54	
2500	85	86	86	85	86	86	86	85	84	81	81	80	80	78	76	66	59	52	
3150	86	87	87	86	86	86	87	85	84	82	80	79	80	78	75	66	59	52	
4000	83	85	85	83	84	83	84	82	82	79	78	77	78	73	63	57	50	43	
5000	82	83	83	82	82	81	83	81	81	77	77	76	76	71	63	56	50	43	
6300	81	82	82	79	80	79	81	79	79	75	75	74	74	73	69	59	52	46	
8000	81	81	82	79	79	78	79	77	77	73	72	72	72	67	57	50	43	37	
10000	74	75	75	73	73	74	74	72	73	70	70	69	69	63	54	47	41	34	
OVERALL	99	101	101	100	102	105	105	107	111	107	112	110	103	102	98	90	83	76	70
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
C-130E AIRCRAFT															
ENG. T56-A-7															
GROUND RUNUP															
IDENTIFICATION:															
OMEGA 8-2															
TEST 74-004-036															
AIRCRAFT CODE 006															
OPERATION CODE 04030															
PROFILE VERSION A															
01 APR 76															
PAGE 04															
METEOROLOGY:															
TEMP = 53 F															
BAR PRESS = 29.92 IN HG															
REL HUMID = 70 %															
DELTA N = -0.3 DB															
ANGLE (DEGREES)															
DISTANCE (FEET)															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
200	112.9	114.2	114.0	113.3	113.4	113.4	114.5	113.0	114.1	111.7	114.1	112.4	109.5	108.2	105.0
250	110.6	112.0	111.8	111.1	111.2	111.1	112.3	111.5	111.9	109.5	112.0	110.3	107.3	106.0	102.8
315	108.3	109.7	109.5	108.7	108.8	108.8	109.8	109.0	109.3	107.7	107.3	109.0	108.2	105.1	103.0
400	105.9	107.3	107.1	106.4	106.5	106.5	107.6	106.9	107.5	105.1	107.7	106.0	102.3	101.6	98.1
500	103.4	104.8	104.6	103.9	104.0	104.0	105.1	104.6	105.2	102.9	105.4	103.7	100.6	99.3	95.7
630	100.7	102.1	101.9	101.2	101.5	101.4	102.6	102.2	102.9	100.5	103.2	101.4	98.2	96.9	93.3
800	97.9	99.3	99.2	98.4	98.8	98.7	100.0	99.7	100.4	98.0	100.8	99.1	95.7	94.4	90.8
1000	94.9	96.3	96.0	95.3	95.6	95.3	97.3	97.2	97.9	95.5	98.4	96.6	93.2	91.8	88.0
1250	91.7	93.1	92.6	92.0	92.6	92.9	94.3	94.5	95.2	92.8	95.8	94.0	90.4	89.1	85.0
1600	88.4	89.6	89.3	88.7	89.6	89.6	91.1	91.1	91.9	89.5	92.5	90.7	86.9	85.4	81.4
2000	84.8	85.9	85.5	85.0	85.2	86.1	87.7	87.4	88.3	85.7	88.9	87.2	82.9	81.4	78.1
2500	80.9	82.0	82.6	82.0	82.3	82.2	83.9	83.2	83.9	81.1	84.9	82.9	78.6	77.3	74.2
3150	76.6	77.9	78.3	77.7	78.1	78.1	79.8	79.0	78.8	76.1	79.9	77.7	74.5	73.1	69.8
4000	71.9	73.2	73.5	73.1	73.4	73.5	75.2	74.4	73.6	71.0	74.0	71.9	68.8	67.5	64.4
5000	66.9	68.2	68.4	68.1	68.4	68.5	70.2	69.4	68.5	65.9	68.2	66.2	64.9	63.4	60.2
6300	61.3	62.6	62.9	62.6	62.9	63.0	64.7	63.9	63.1	60.6	62.2	60.5	59.6	58.2	54.9
8000	56.8	58.3	58.3	57.9	57.8	58.6	59.3	58.7	57.8	55.5	58.3	56.4	55.4	53.9	50.2
10000	51.8	53.6	53.1	53.1	53.3	53.8	54.0	54.0	53.2	51.0	54.2	52.0	50.7	49.1	44.7
12500	46.4	48.2	48.3	47.9	47.6	48.5	48.5	48.7	47.8	46.5	49.8	47.0	45.1	43.6	38.7
16000	39.9	42.0	41.9	41.6	41.3	42.4	42.1	42.7	40.7	40.5	44.9	41.1	39.7	37.0	31.6
20000	32.7	35.0	34.9	34.7	33.7	35.3	34.9	35.1	35.3	32.8	38.7	34.0	31.7	29.4	23.3
25000	22.6	25.9	26.7	25.8	24.3	26.4	25.5	26.3	27.7	23.7	32.4	27.8	21.6	18.0	13.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130E AIRCRAFT																			
ENG. 150-A-7																			
GROUND RUNUP																			
OPERATIONS:																			
TAKEOFF POWER																			
16800 IN-LBS																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA N = -6.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-036																			
AIRCRAFT CODE 006																			
OPERATION CODE 04030																			
PROFILE VERSION A																			
01 APR 76																			
PAGE E4																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	113.4	115.0	114.7	114.0	113.9	114.3	116.1	115.8	116.5	113.9	115.7	113.4	110.6	109.0	105.0	95.8	88.9	81.9	74.9
250	111.2	112.7	112.4	111.7	111.7	112.0	113.8	113.6	114.4	111.8	113.5	111.2	108.4	106.8	102.8	93.5	86.6	79.6	72.6
315	108.9	110.4	110.1	109.4	109.4	109.7	111.5	111.3	112.2	109.6	111.4	109.1	106.2	104.6	100.5	91.3	84.2	77.2	70.2
400	106.4	108.0	107.7	107.1	107.0	107.4	109.2	109.0	110.0	107.4	109.2	106.9	104.0	102.4	98.1	88.8	81.8	74.8	67.8
500	103.9	105.5	105.2	104.6	104.5	104.9	106.7	106.6	107.7	105.1	107.0	104.7	101.7	100.1	95.7	86.3	79.3	72.3	65.2
630	101.3	102.9	102.6	101.9	102.0	102.3	104.2	104.3	105.3	102.8	104.7	102.4	99.3	97.7	93.3	83.6	76.6	69.6	62.4
800	98.5	100.1	99.8	99.1	99.3	99.6	101.6	101.8	102.9	100.3	102.4	100.0	96.8	95.2	90.8	80.8	73.8	66.8	59.4
1000	95.4	97.1	97.0	96.3	96.6	96.8	98.8	99.2	100.3	97.6	100.0	97.5	94.3	92.6	88.0	78.0	70.9	63.8	56.3
1250	92.3	93.9	93.9	93.3	93.5	93.8	95.9	96.5	97.7	95.1	97.4	94.9	91.5	89.9	85.0	75.0	68.0	60.7	52.8
1600	88.9	91.3	91.6	91.0	91.2	91.5	93.7	94.2	95.4	92.8	95.1	92.6	89.2	87.6	82.7	72.7	65.7	57.3	48.8
2000	85.4	86.7	87.1	86.5	86.7	87.0	89.2	89.5	90.7	88.0	90.5	88.1	84.0	82.2	78.1	68.3	61.1	53.3	44.8
2500	81.5	82.8	83.2	82.7	82.8	83.2	85.5	85.3	86.4	83.4	86.5	83.8	79.7	78.1	74.2	64.4	57.1	48.6	39.3
3150	77.2	78.6	78.9	78.4	78.6	79.0	81.3	81.1	81.3	78.3	81.4	78.7	75.6	73.9	69.8	60.2	52.6	43.7	34.8
4000	72.3	73.8	74.0	73.6	73.8	74.2	76.4	76.0	75.5	72.8	75.2	72.7	70.7	69.1	65.3	55.4	46.9	38.4	27.8
5000	67.2	68.6	68.8	68.5	68.7	69.0	71.1	70.6	70.0	67.3	69.1	66.5	63.9	62.2	58.5	48.9	41.3	32.2	17.0
6300	61.5	63.1	63.1	62.8	63.1	63.3	65.3	64.7	64.0	61.3	62.9	60.9	58.0	56.5	52.8	43.7	35.4	23.1	6.2
9000	56.9	58.4	58.4	58.0	57.9	58.7	59.6	59.1	58.3	56.3	58.6	56.6	53.6	52.0	48.3	38.2	28.6	14.6	
10000	51.8	53.6	53.6	53.1	53.0	53.8	54.0	54.0	53.2	51.8	54.2	52.0	49.1	47.5	43.8	34.3	19.0	6.1	
12500	46.4	48.2	48.3	47.9	47.6	48.5	48.5	48.7	47.8	46.5	48.8	47.3	44.1	42.5	38.8	29.3	9.5		
16000	39.9	42.0	41.9	41.6	41.3	42.4	42.1	42.7	41.7	40.5	42.9	41.1	37.9	36.3	32.6	12.0			
20000	32.7	35.0	34.9	34.7	34.7	35.3	34.9	35.1	34.3	32.8	35.7	34.6	31.7	29.4	23.3				
25000	22.6	25.0	26.7	25.8	24.3	26.4	25.5	26.3	27.7	23.7	27.8	27.8	21.6	18.0	10.1				

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE I. A-WEIGHTED OVERALL SOUND LEVEL (JBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:										(OPERATION:										METEOROLOGY:										AIRCRAFT										
C-130E / AIRCRAFT										TAKEOFF POWER										TEMP										AIRCRAFT										
ENG. T56-A-7										16800 IN-LBS										59 F										OPERATION CODE 04030										
GROUND RUNUP										SINGLE ENGINE										REL HUMID = 70 %										PROFILE VERSION A										
																				DELTA N = -6.0 DB										01 APR 76										
																														PAGE F4										
DISTANCE										ANGLE (DEGREES)																														
(FEET)																																								
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	98.5	93.7	99.8	99.2	99.3	99.3	100.4	93.4	90.6	95.2	96.3	95.4	95.0	93.5	90.8	81.8	75.1	68.4	61.8	200	98.5	93.7	99.8	99.2	99.3	99.3	100.4	93.4	90.6	95.2	96.3	95.4	95.0	93.5	90.8	81.8	75.1	68.4	61.8	
250	96.3	97.5	97.6	97.1	97.1	97.1	98.2	97.2	96.4	94.3	94.2	93.3	92.8	91.3	88.7	79.7	73.0	66.3	59.7	250	96.3	97.5	97.6	97.1	97.1	97.1	98.2	97.2	96.4	94.3	94.2	93.3	92.8	91.3	88.7	79.7	73.0	66.3	59.7	
315	94.0	92.3	95.3	94.9	94.9	94.9	96.3	95.0	94.2	91.9	92.1	91.2	90.7	89.2	86.6	77.5	70.8	64.2	57.5	315	94.0	92.3	95.3	94.9	94.9	94.9	96.3	95.0	94.2	91.9	92.1	91.2	90.7	89.2	86.6	77.5	70.8	64.2	57.5	
430	91.6	93.0	93.1	92.6	92.7	92.7	93.0	92.8	92.0	89.7	89.9	89.0	88.5	87.0	84.4	75.3	68.7	62.0	55.3	430	91.6	93.0	93.1	92.6	92.7	92.7	93.0	92.8	92.0	89.7	89.9	89.0	88.5	87.0	84.4	75.3	68.7	62.0	55.3	
530	89.4	91.7	90.7	90.3	90.3	90.4	91.4	90.5	89.7	87.4	87.4	86.8	86.2	84.8	82.1	73.1	66.4	59.8	53.1	530	89.4	91.7	90.7	90.3	90.3	90.4	91.4	90.5	89.7	87.4	87.4	86.8	86.2	84.8	82.1	73.1	66.4	59.8	53.1	
630	87.0	88.3	85.8	87.9	88.0	89.1	88.1	87.3	85.1	85.5	84.5	83.9	82.4	79.9	70.8	64.2	57.5	50.8		630	87.0	88.3	85.8	87.9	88.0	89.1	88.1	87.3	85.1	85.5	84.5	83.9	82.4	79.9	70.8	64.2	57.5	50.8		
830	84.5	85.8	85.0	85.5	85.5	85.0	85.7	84.3	82.7	83.1	82.2	81.6	80.1	77.5	68.5	61.8	55.2	48.5		830	84.5	85.8	85.0	85.5	85.5	85.0	85.7	84.3	82.7	83.1	82.2	81.6	80.1	77.5	68.5	61.8	55.2	48.5		
1000	81.9	83.3	83.3	83.0	82.9	83.1	84.0	83.2	82.3	80.8	79.5	78.5	77.5	75.1	66.1	59.4	52.8	46.1		1000	81.9	83.3	83.3	83.0	82.9	83.1	84.0	83.2	82.3	80.8	79.5	78.5	77.5	75.1	66.1	59.4	52.8	46.1		
1250	79.2	80.6	80.6	80.3	80.2	80.4	81.4	80.5	79.7	77.5	76.3	75.3	74.3	72.3	63.6	56.9	50.2	43.6		1250	79.2	80.6	80.6	80.3	80.2	80.4	81.4	80.5	79.7	77.5	76.3	75.3	74.3	72.3	63.6	56.9	50.2	43.6		
1500	76.4	77.8	77.7	77.4	77.4	77.7	78.6	77.8	76.8	74.7	75.4	74.6	73.8	72.3	69.9	60.9	54.3	47.6		1500	76.4	77.8	77.7	77.4	77.4	77.7	78.6	77.8	76.8	74.7	75.4	74.6	73.8	72.3	69.9	60.9	54.3	47.6		
2000	73.5	74.9	74.8	74.5	74.5	74.8	75.6	74.8	73.8	71.8	72.5	71.7	71.0	69.5	67.1	58.2	51.5	44.9		2000	73.5	74.9	74.8	74.5	74.5	74.8	75.6	74.8	73.8	71.8	72.5	71.7	71.0	69.5	67.1	58.2	51.5	44.9		
2500	70.4	71.8	71.6	71.3	71.3	71.6	72.4	71.7	70.6	68.6	69.3	68.6	67.9	66.4	64.0	55.0	48.3	41.7		2500	70.4	71.8	71.6	71.3	71.3	71.6	72.4	71.7	70.6	68.6	69.3	68.6	67.9	66.4	64.0	55.0	48.3	41.7		
3150	67.0	68.4	68.1	67.8	67.8	68.2	69.0	68.2	67.1	65.2	65.8	65.1	64.3	62.8	60.3	51.3	44.6	38.0		3150	67.0	68.4	68.1	67.8	67.8	68.2	69.0	68.2	67.1	65.2	65.8	65.1	64.3	62.8	60.3	51.3	44.6	38.0		
4000	63.3	64.6	64.2	64.0	64.0	64.4	65.2	64.4	63.3	61.4	61.9	61.3	60.8	59.2	57.0	48.4	41.8	35.1		4000	63.3	64.6	64.2	64.0	64.0	64.4	65.2	64.4	63.3	61.4	61.9	61.3	60.8	59.2	57.0	48.4	41.8	35.1		
5000	59.1	60.5	59.9	59.7	59.7	60.1	61.0	60.2	59.0	57.2	57.8	57.1	56.6	55.1	52.9	44.4	37.8	31.1		5000	59.1	60.5	59.9	59.7	59.7	60.1	61.0	60.2	59.0	57.2	57.8	57.1	56.6	55.1	52.9	44.4	37.8	31.1	24.4	
6000	54.6	56.1	55.4	55.2	55.2	55.6	56.4	55.7	54.5	52.8	53.4	52.7	52.2	50.7	48.5	40.1	33.5	26.8		6000	54.6	56.1	55.4	55.2	55.2	55.6	56.4	55.7	54.5	52.8	53.4	52.7	52.2	50.7	48.5	40.1	33.5	26.8	20.1	
8000	50.5	51.9	51.2	51.0	50.9	51.4	51.9	51.4	50.3	48.7	49.5	48.9	48.2	46.7	44.5	36.1	29.4	22.7		8000	50.5	51.9	51.2	51.0	50.9	51.4	51.9	51.4	50.3	48.7	49.5	48.9	48.2	46.7	44.5	36.1	29.4	22.7	16.1	
10000	46.0	47.5	46.8	46.6	46.4	47.0	47.2	46.8	45.9	44.5	45.5	44.8	44.0	42.5	40.1	31.7	25.0	18.3		10000	46.0	47.5	46.8	46.6	46.4	47.0	47.2	46.8	45.9	44.5	45.5	44.8	44.0	42.5	40.1	31.7	25.0	18.3	11.7	
12500	41.3	42.7	42.1	41.9	41.7	42.3	42.2	42.0	41.3	40.0	41.3	40.0	39.4	37.9	35.5	26.9	20.2	13.5		12500	41.3	42.7	42.1	41.9	41.7	42.3	42.2	42.0	41.3	40.0	41.3	40.0	39.4	37.9	35.5	26.9	20.2	13.5	6.1	
16000	36.1	37.5	37.1	36.8	36.6	37.3	37.1	37.0	36.0	35.4	37.2	36.2	34.6	33.3	31.5	21.3	15.0	8.4		16000	36.1	37.5	37.1	36.8	36.6	37.3	37.1	37.0	36.0	35.4	37.2	36.2	34.6	33.3	31.5	21.3	15.0	8.4	1.1	
20000	30.5	32.0	31.8	31.5	31.2	32.0	31.7	32.0	32.3	30.8	33.3	32.0	29.6	28.3	25.3	16.7	9.6	2.9		20000	30.5	32.0	31.8	31.5	31.2	32.0	31.7	32.0	32.3	30.8	33.3	32.0	29.6	28.3	25.3	16.7	9.6	2.9		
25000	24.4	26.0	26.0	25.7	25.5	26.3	26.2	27.2	28.2	26.5	23.8	27.9	24.4	23.3	19.9	10.8	4.2			25000	24.4	26.0	26.0	25.7	25.5	26.3	26.2	27.2	28.2	26.5	23.8	27.9	24.4	23.3	19.9	10.8	4.2			

► SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D3A)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
IDENTIFICATION:																
) OMEGA 8.2																
) TEST 74-004-036																
) RUN 04																
) AIRCRAFT CODE 006																
) OPERATION CODE 04J30																
) PROFILE VERSION A																
) 01 APR 76																
) PAGE 64																
) METEOROLOGY:																
) TEMP = 59 F																
) BAR PRESS = 29.92 IN HG																
) REL HUMID = 70 %																
) DELTA N = -6.0 DB																
) DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	99.0	103.4	104.4	99.9	99.8	106.2	102.0	101.4	101.0	98.4	97.9	96.4	96.1	94.3	90.8	81.8
250	96.8	98.3	98.2	97.8	97.6	98.0	99.8	93.3	98.8	93.3	95.8	94.2	93.9	92.1	88.7	79.7
315	94.6	96.0	96.3	95.6	95.4	95.8	97.6	97.1	96.6	94.1	93.7	92.1	91.8	90.0	86.6	77.5
400	92.3	93.8	93.7	93.3	93.1	93.6	95.3	94.6	94.4	91.9	91.5	89.3	89.6	87.8	84.4	75.3
500	90.0	91.4	91.3	91.0	90.8	91.3	93.0	92.6	92.1	89.7	89.3	87.7	87.3	85.6	82.1	73.1
630	87.6	89.0	88.3	88.6	88.4	88.9	90.0	90.2	89.7	87.3	87.0	85.5	85.0	83.2	79.9	70.8
800	85.1	86.6	86.5	86.2	86.0	86.5	88.2	87.8	87.3	84.9	84.7	83.2	82.6	80.9	77.5	68.5
1000	82.5	84.0	83.9	83.7	83.4	84.0	85.6	85.2	84.8	82.4	82.3	80.8	80.2	78.5	75.1	66.1
1250	79.8	81.3	81.2	80.9	80.8	81.3	82.9	82.6	82.1	79.8	79.8	78.3	77.6	75.9	72.5	63.6
1600	77.0	78.5	78.4	78.1	77.9	78.5	80.1	79.8	79.2	77.0	77.0	75.5	74.9	73.1	69.9	60.9
2000	74.1	75.6	75.4	75.2	75.0	75.7	77.2	76.9	76.3	74.1	74.1	72.7	72.1	70.3	67.1	58.2
2500	71.0	72.5	72.2	72.0	71.8	72.5	74.0	73.7	73.0	70.9	70.8	69.5	69.0	67.2	64.0	55.2
3150	67.6	69.1	68.7	68.5	68.4	69.1	70.6	70.3	69.5	67.4	67.3	66.1	65.6	63.8	60.7	52.0
4000	63.7	65.2	64.7	64.5	64.4	65.1	66.4	66.1	65.2	63.2	63.2	62.1	61.7	59.9	57.0	48.4
5000	59.4	61.0	60.3	60.1	60.1	60.7	61.9	61.5	60.5	58.6	58.7	57.7	57.3	55.6	52.9	44.4
6300	54.8	56.4	55.6	55.5	55.4	55.9	57.0	56.5	55.5	53.7	54.0	53.1	52.6	51.0	48.5	40.1
8000	50.6	52.1	51.3	51.1	51.0	51.6	52.6	52.2	51.8	49.2	49.8	49.0	48.4	46.9	44.5	36.1
10000	46.0	47.5	46.8	46.6	46.4	47.0	47.2	46.8	45.9	44.5	45.2	44.8	44.0	42.6	40.1	31.7
12500	41.3	42.7	42.1	41.9	41.7	42.3	42.2	42.1	41.3	40.0	41.3	40.8	39.4	38.1	35.5	26.9
16000	36.1	37.5	37.1	36.8	36.6	37.3	37.1	37.0	36.8	35.4	37.2	36.2	34.6	33.3	30.5	21.7
20000	30.5	32.0	31.8	31.5	31.2	32.0	31.7	32.0	32.3	30.8	33.3	32.0	29.6	28.1	25.3	16.3
25000	24.4	26.0	26.0	25.7	25.5	26.3	26.2	27.2	28.2	26.5	29.8	27.9	24.4	23.3	19.9	10.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT: (OPERATION: (METEOROLOGICAL: (IDENTIFICATION:
 (C-130E AIRCRAFT (TAKEOFF POWER (TEMP = 59 F (OMEGA 8.2
 (ENG. 156-A-7 (15000 IN-LBS (WAK PRESS = 29.92 IN HG (TEST 74-004-036
 (GROUND RUNUP (SINGLE ENGINE (REL HUMID = 70 % (PUN 94
 (((DELTA H = -6.0 DB (AIRCRAFT CODE 000
 (((((OPERATION CODE 04330
 (((((PROFILE VERSION A
 (((((01 APR 76
 (((((PAGE 14

ANGLE IN DEGREES	NOISE LEVEL IN PHD3 ON DBA										TOTAL	
	20	30	40	50	60	70	80	90	100	110	120	
0	AT.
10	X
20	X
30	AT.
40	AT.
50	AT.
60	AT.
70	AT.
80	AT.
90	AT.
100	AT.
110	AT.
120	AT.
130	AT.
140	AT.
150	AT.
>160	AT.
>170	AT.
>180	AT.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

~~C-130H,N,P AIRCRAFT~~

JSAF
USAF
USAF

USAF
USAF
USAF

USAF
USAF
USAF

USAF	USAF
USAF	USAF

USAF
USAF
USAF

USAF
USAF
USAF

	NOISE PRODUCED ON THE GROUND BY	
USAF		USAF
USAF		USAF

CUSTOMER NAME

C-130M,N,P AIRCRAFT
USAF
USAF
USAF

	DURING FLIGHT OPERATIONS	USAF
		USAF
		USAF

USAF
USAF
USAF

FLYOVER MEASUREMENTS

USAF	AIRCRAFT CODE	321	USAF
USAF	PROFILE VERSION	A	USAF

COMPUTER PROGRAM OMCA 6.6

	PAGE	USAF
POWER SETTING		USAF
		USAF

<u>POWER SELLING</u>	<u>PAGE</u>	<u>USAF</u>
USAF		USAF
USAF		USAF

USAF	462-470
USAF	471-479
USAF	

[illegible]

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM

NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR TO-GROUND PROPAGATION

[illegible]

USAF
USAF
USAF

SINGLE EVENT MEASURES (AL, ALT, PNL, PULT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION

SOUND PRESSURE LEVEL SPECTRA

SINGLE EVENT MEASURES (AL., ALT., PNL., PNLT., SEL., SEIT., FPNL.)

USAF
USAF
USAF

USAF	23 DEC 76	USAF
USAF		USAF

[illegible]

USAF
USAF
USAF
WRIGHT-PATTERSON AIR FORCE
RESEARCH LABORATORY
USAF

	USAF
	JSAF
	USAF
	USAF
	USAF

USAF
USAF
USAF

USAF	USAF	USAF	USAF	USAF
C-130H,N,P	C-130H,N,P	C-130H,N,P	C-130H,N,P	C-130H,N,P
AIRCRAFT	AIRCRAFT	AIRCRAFT	AIRCRAFT	AIRCRAFT

J5AF	C-130H,N,P	AIRCRAFT	C-130H,N,P	AIKRAFT	C-130H,N,P	PUSAF
U5AF	C-130H,N,P	AIRCRAFT	C-130H,N,P	AIKRAFT	C-130H,N,P	PUSAF

[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																																	IDENTIFICATION:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
AIR-TO-GROUND PROPAGATION																																	OMEGA 6.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
AIRCRAFT:																																	A/C CODE: 521																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
C-130H,N,P																																	OPS CODE: 103																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
(370 C TIT 16800 IN-LBS)																																	PROFILE VER: A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
(AIRSPEED = 170 KNOTS)																																	23 DEC 76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
(DELTA N = 0.0 DB)																																	PAGE M1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
FREQUENCY BAND NUMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
200	82	109	104	92	91	93	92	91	92	93	91	92	92	91	89	88	85	85	87	87	87	82	79	78	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	(OPERATIONS)	(TAKEOFF POWER)	(970 C TIT 16800 IN-LBS)	METEOROLOGY:					IDENTIFICATION:
C-130H,N,P	()	()	()	TEMP = 59 F					OMEGA 6.6
	()	()	()	REL HUMID = 70 %					A/C CODE: 521
	()	()	()	DELTA N = 0.0 DB					OPS CODE: 103
	()	()	()						PROFILE VER: A
	()	()	()						23 DEC 76
	()	()	()						PAGE 11
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DPA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	100.2	100.2	114.4	114.4	79.2	99.2	105.4		
250	98.0	98.0	112.3	112.3	98.1	98.1	104.2		
315	95.9	95.9	110.1	110.1	97.0	97.0	103.1		
400	93.7	93.7	107.9	107.9	95.8	95.8	101.9		
500	91.5	91.5	105.7	105.7	94.6	94.6	100.6		
630	89.2	89.2	103.4	103.4	93.3	93.3	99.3		
800	86.9	86.9	101.1	101.1	92.0	92.0	98.0		
1000	84.6	84.6	98.7	98.7	90.7	90.7	96.6		
1250	82.2	82.2	96.2	96.2	89.3	89.3	95.1		
1600	79.7	79.7	93.7	93.7	87.8	87.8	93.6		
2000	77.2	77.2	91.1	91.1	86.3	86.3	92.0		
2500	74.6	74.6	88.4	88.4	84.7	84.7	90.4		
3150	71.9	71.9	85.5	85.5	83.0	83.0	88.5		
4000	69.2	69.2	82.5	82.5	81.3	81.3	86.4		
5000	66.3	66.3	79.3	79.3	79.4	79.4	84.2		
6300	63.3	63.3	76.1	76.1	77.4	77.4	82.0		
8000	60.1	60.1	72.7	72.7	75.2	75.2	79.7		
10000	56.9	56.9	69.3	69.3	73.0	73.0	77.2		
12500	53.6	53.6	65.7	65.7	70.7	70.7	74.7		
16000	50.2	50.2	62.1	62.1	68.3	68.3	72.0		
20000	46.9	46.9	58.1	58.1	66.0	66.0	69.1		
25000	43.5	43.5	54.0	54.0	63.6	63.6	65.9		

[illegible]

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	TAKEOFF POWER	16800 IN-LBS	TEMP	REL HUMID	DELTA M	0.0 DB	METEOROLOGY:	IDENTIFICATION:
C-130H,N,P	(	970 C	TIT	16800	IN-LBS	)	DELTA M = 0.0 DB	TEMP = 59 F	OMEGA 6.6
	(	AIR SPEED = 170 KNOTS				)		OPS CODE: 521	
	(					)		OPS CODE: 103	
	(					)		PROFILE VER: A	
	(					)		23 DEC 76	
	(					)		PAGE M1	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLI** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	95.2	95.2	109.4	109.4	94.2	94.2	100.3		
250	93.0	93.0	107.3	107.3	93.1	93.1	99.2		
315	90.9	90.9	105.1	105.1	92.0	92.0	98.0		
400	88.7	88.7	102.9	102.9	90.8	90.8	96.8		
500	86.5	86.5	100.6	100.6	89.6	89.6	95.5		
630	84.2	84.2	98.2	98.2	88.3	88.3	94.2		
800	81.9	81.9	95.8	95.8	87.0	87.0	92.7		
1000	79.5	79.5	93.2	93.2	85.6	85.6	91.2		
1250	77.0	77.0	90.5	90.5	84.1	84.1	89.5		
1600	74.4	74.4	87.1	87.1	82.5	82.5	87.0		
2000	71.7	71.7	83.1	83.1	80.8	80.8	84.0		
2500	68.7	68.7	78.8	78.8	78.8	78.8	80.7		
3150	65.4	65.4	74.5	74.5	76.5	76.5	77.5		
4000	61.8	61.8	70.0	70.0	73.9	73.9	74.0		
5000	57.8	57.8	65.3	65.3	70.3	70.3	70.3		
6300	53.5	53.5	60.2	60.2	67.6	67.6	66.2		
8000	49.5	49.5	55.8	55.8	64.6	64.6	62.7		
10000	45.2	45.2	50.8	50.8	61.3	61.3	58.8		
12500	40.6	40.6	45.1	45.1	57.7	57.7	54.1		
16000	35.5	35.5	39.0	39.0	53.6	53.6	48.9		
20000	30.3	30.3	31.7	31.7	49.4	49.4	42.7		
25000	25.0	25.0	20.3	20.3	45.1	45.1	32.2		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	30	40	50	60	70	80	90	100	110
200	(((((((((
250	(((((((((
315	(((((((((
400	(((((((((
500	(((((((((
630	(((((((((
800	(((((((((
1000	(((((((((
1250	(((((((((
1600	(((((((((
2000	(((((((((
2500	(((((((((
3150	(((((((((
4000	(((((((((
5000	(((((((((
6300	(((((((((
8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((

C-130H,N,P TAKEOFF POWER
 970 C TIT 16800 IN-LBS
 AIRSPEED = 170 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 1
 IDENT: 6.6-521-103-231276-A

S L A N T D I S T A N C E I N F E E T
 GROUND TO GROUND
 P = PNLT
 * = PNL
 + = ALT
 A = AL

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
(C-130H,N,P	99.1	100.1	113.1	114.1	97.7	97.7	103.0	OMEGA	6.6
((OPERATION: APPROACH POWER	96.9	97.9	110.9	111.9	96.5	96.5	101.8	A/C CODE: 521	
((500 C TIT 4000 IN-LBS	94.7	95.7	108.6	109.6	95.3	95.3	100.5	OPS CODE: 105	
((AIRSPEED = 140 KNOTS	92.5	93.5	106.3	107.3	94.1	94.1	99.1	PROFILE VER: A	
((DELTA N = 0.0 DB	90.2	91.2	103.8	104.8	92.8	92.8	97.7	23 DEC 76	
( (	87.9	88.9	101.3	102.3	91.5	91.5	96.2	PAGE 12	
( (	85.5	86.5	98.6	99.6	90.1	90.1	94.5		
(SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
(200	99.1	100.1	113.1	114.1	97.7	97.7	103.0		
(250	96.9	97.9	110.9	111.9	96.5	96.5	101.8		
(315	94.7	95.7	108.6	109.6	95.3	95.3	100.5		
(400	92.5	93.5	106.3	107.3	94.1	94.1	99.1		
(500	90.2	91.2	103.8	104.8	92.8	92.8	97.7		
(630	87.9	88.9	101.3	102.3	91.5	91.5	96.2		
(800	85.5	86.5	98.6	99.6	90.1	90.1	94.5		
(1000	83.0	84.0	95.6	96.6	88.6	88.6	92.7		
(1250	80.5	81.5	93.0	94.0	87.1	87.1	90.9		
(1600	77.9	78.9	90.0	91.0	85.5	85.5	88.9		
(2000	75.2	76.2	86.9	87.9	83.7	83.7	86.8		
(2500	72.4	73.4	83.7	84.7	81.9	81.9	84.5		
(3150	69.5	70.5	80.4	81.4	80.0	80.0	82.3		
(4000	66.4	67.2	77.1	77.9	78.0	78.0	80.0		
(5000	63.3	63.9	73.8	74.4	75.9	75.9	77.7		
(6300	60.0	60.4	70.4	70.8	73.6	73.6	75.3		
(8000	56.6	56.8	66.9	67.1	71.2	71.2	72.7		
(10000	53.1	53.1	63.1	63.1	68.7	68.7	70.0		
(12500	49.5	49.5	59.0	59.0	66.1	66.1	66.9		
(16000	45.8	45.8	54.9	54.9	63.4	63.4	63.8		
(20000	42.1	42.1	50.5	50.5	60.7	60.7	60.3		
(25000	38.3	38.3	45.3	45.3	57.9	57.9	56.2		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	40	50	60	70	80	90	100	110	120
200	(((((((((
	C-130H,N,P	APPROACH POWER							
250	(((((((((
	580 C TIT	4000 IN-LBS							
315	(((((((((
	AIRSPD = 140 KNOTS								
400	(((((((((
	TEHP = 59 F	REL HUMID = 70 %							
500	(((((((((
	DELTA N = 0.0 DB								
630	(((((((((
	NO. OF RECORDS: 1								
800	(((((((((
	IDENT: 6.6-521-105-231276-A								
1000	(((((((((
1250	(((((((((
1600	(((((((((
2000	(((((((((
2500	(((((((((
3150	(((((((((
4000	(((((((((
5000	(((((((((
6300	(((((((((
8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((

[illegible]

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

C-130H,H,P APPROACH POWER
 580 C TIT 4000 IN-LBS
 AIRSPEED = 140 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 1
 IDENT: 6.6-521-105-231276-A

	30	40	50	60	70	80	90	100	110
250
315
400
500
630
800
1000
1250
1500
1750
2000
2250
2500
2750
3000
3250
3500
3750
4000
4250
4500
4750
5000
5250
5500
5750
6000
6250
6500
6750
7000
7250
7500
7750
8000
8250
8500
8750
9000
9250
9500
9750
10000

GROUND TO GROUND
 P = PUL
 * = PUL
 + = ALT
 A = AL

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
C-130H,N,P AIRCRAFT																
ENG. T-6-A-15																
GROUND RUNUP																
OPERATIONS																
C-130H,N,P AIRCRAFT																
LOW IDLE																
SINGLE ENGINE																
800 IN-LBS																
METEOROLOGICAL																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -5.1 DB																
AIRCRAFT CODE 521																
OPERATION CODE 34011																
PROFILE VERSION A																
14 DEC 76																
PAGE C1																
BAND CENTER																
FREQ (HZ)																
ANGLE (DEGREES)																
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																
50	84	84	83	82	81	81	80	79	78	76	75	75	75	75	75	76
63	72	72	71	69	69	69	69	68	67	67	67	67	67	67	67	67
86	81	81	79	77	77	77	77	74	72	73	74	75	77	76	74	70
100	85	85	85	85	85	84	86	87	87	87	87	90	90	87	82	78
125	85	83	83	83	83	82	84	85	85	85	85	85	89	86	82	77
160	84	83	83	83	81	81	82	79	78	80	81	83	83	83	81	77
200	83	83	83	83	81	81	80	78	78	78	79	80	81	81	80	77
250	82	81	81	80	79	78	77	76	76	76	77	79	79	80	81	76
315	84	85	84	80	82	81	78	79	75	79	90	81	82	83	82	78
400	84	81	82	82	79	80	80	78	78	77	76	80	81	81	80	75
500	80	78	77	79	75	75	77	73	74	73	73	75	76	78	76	71
630	78	78	78	74	75	75	74	75	74	74	75	77	79	79	77	72
800	76	74	73	75	73	73	75	72	72	72	71	69	73	74	73	67
1000	74	74	73	72	72	72	72	72	71	71	70	71	72	73	72	70
1250	73	73	73	73	72	71	71	70	69	71	70	70	71	70	68	66
1600	74	75	75	75	73	72	72	71	71	71	73	73	72	73	72	69
2000	73	73	73	71	71	71	71	70	70	70	71	73	74	72	71	67
2500	72	72	72	70	69	69	69	68	68	68	70	72	72	70	67	63
3150	74	73	72	71	69	69	69	68	68	68	70	71	73	73	67	64
4000	73	72	70	69	68	67	68	66	66	66	69	70	71	69	66	63
5000	83	82	84	82	81	80	76	72	72	72	73	73	72	74	72	68
6300	80	79	79	77	77	75	74	72	72	72	74	75	75	77	76	72
8000	71	71	69	67	66	65	65	63	63	63	65	66	67	69	66	63
10000	72	71	71	68	68	66	64	60	59	62	63	64	64	65	62	58
OVERALL	95	94	94	93	93	91	92	92	92	92	94	92	94	95	93	87
																85

TABLE PERCEIVED NOISE LEVEL (PN03)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-130H,N,P AIRCRAFT																
ENG. T-6-A-15																
GROUND RUNUP																
OPERATION:																
C-130H,N,P																
LOW IDLE																
SINGLE ENGINE																
900 IN-LBS																
METEOROLOGY:																
TEMP = 59 F																
9AR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -5.1 DB																
PAGE 01																
IDENTIFICATION:																
OMEGA 8.2																
TEST 76-521-091																
RUN 01																
AIRCRAFT CODE 521																
OPERATION CODE 08011																
PROFILE VERSION A																
14 DEC 76																
PAGE 01																
ANGLE (DEGREES)																
DISTANCE																
(FEET)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
230	107.6	115.9	127.4	105.8	104.8	114.3	112.6	113.4	99.9	111.5	111.5	102.2	103.0	103.9	102.9	100.0
250	105.2	105.6	105.0	103.4	102.5	101.9	101.2	99.1	97.6	99.3	99.1	99.3	101.6	101.5	100.5	97.6
315	102.8	102.2	102.6	101.0	100.1	99.5	97.9	95.7	95.3	97.1	96.9	97.4	98.2	99.1	98.1	95.4
410	103.3	93.6	101.0	98.5	97.5	97.3	95.4	93.3	92.9	94.8	94.6	94.3	95.7	96.5	95.6	93.1
510	97.6	97.0	97.4	95.8	94.9	94.3	92.7	91.8	90.5	92.5	92.3	92.2	93.4	94.0	92.9	92.7
630	94.6	94.1	94.2	93.0	92.0	91.4	89.9	88.3	86.1	88.1	87.8	89.5	91.9	91.5	90.3	88.2
830	91.7	91.0	91.4	89.9	88.9	88.3	86.9	85.5	83.1	87.3	87.1	85.8	83.2	88.8	87.7	85.6
1030	88.4	87.7	86.3	86.5	85.6	85.0	83.8	82.3	82.3	84.1	83.8	83.3	85.0	85.7	84.9	82.9
1250	84.7	84.1	84.4	82.9	82.0	81.4	80.5	79.4	78.3	80.7	80.4	81.3	81.8	82.7	81.8	79.7
1510	81.5	80.3	80.4	79.5	78.1	77.8	77.0	75.3	75.9	77.0	76.7	77.9	78.7	79.5	78.7	76.7
2000	78.2	77.0	77.0	76.2	74.7	74.5	74.3	73.6	72.6	73.5	73.0	74.6	75.3	76.3	75.4	73.5
2500	74.1	72.9	72.9	72.2	70.7	70.4	70.3	69.0	68.0	69.4	68.9	70.6	71.3	72.3	71.4	69.5
3150	69.6	68.4	68.4	67.7	66.2	65.9	65.3	64.5	64.0	64.4	64.7	66.1	67.3	67.9	67.1	65.0
4030	64.5	63.3	63.2	62.5	61.3	60.7	60.6	59.3	58.8	59.8	59.9	61.2	62.6	63.2	62.5	60.0
5030	58.8	58.2	57.6	57.2	55.7	55.0	55.4	54.1	53.3	54.5	54.6	56.1	57.5	58.1	57.4	54.9
6300	53.2	52.6	52.0	51.8	50.7	49.1	49.0	47.5	47.5	48.7	48.9	50.5	52.1	52.7	52.0	49.6
8330	49.6	47.9	47.2	47.2	45.1	44.0	43.1	41.6	41.6	43.7	44.0	45.7	47.4	48.2	47.5	44.7
10000	43.8	42.6	41.7	41.9	39.7	38.3	39.8	37.3	36.4	37.5	37.8	40.1	42.1	43.0	42.3	39.0
12500	37.5	35.1	35.8	35.8	32.0	31.9	32.6	30.3	29.7	30.8	31.1	32.5	35.2	36.1	35.3	32.9
16000	30.9	29.0	29.1	29.7	25.1	25.3	26.0	24.6	24.6	25.4	25.7	27.1	29.9	29.4	28.5	25.2
20000	23.6	21.2	21.1	18.5	16.4	14.4	14.0	9.9	11.1	8.5	6.9	15.7	17.0	19.9	19.1	17.1
25000	12.7	11.4	8.5	7.6	7.6	3.6	3.2					6.1	6.0	10.5	9.7	8.9

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130M,N,P AIRCRAFT																			
ENG. 156-A-15																			
GROUND RUNUP																			
OPERATIONS:																			
C-130M,N,P																			
LOW IDLE																			
SINGLE ENGINE																			
800 IN-LBS																			
METEOROLOGICAL:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA N = -5.1 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-571-061																			
AIRCRAFT CODE 521																			
OPERATION CODE 04J11																			
PROFILE VERSION A																			
14 DEC 76																			
PAGE F1																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	91.5	91.9	91.2	89.8	88.8	88.2	87.2	85.7	85.2	86.5	86.4	87.4	89.1	89.9	88.1	85.9	82.1	90.3	79.5
250	89.2	89.7	88.4	87.5	86.5	85.9	85.0	83.5	83.1	84.3	84.2	85.2	86.9	87.3	85.9	83.8	79.9	78.2	77.4
315	86.9	86.3	86.6	85.2	84.2	83.6	81.8	81.3	80.8	82.1	82.0	83.3	83.8	82.5	83.7	81.7	77.8	76.8	75.2
400	84.5	83.9	84.1	82.8	81.8	81.2	80.5	79.1	78.6	79.9	79.7	80.7	81.5	82.3	81.5	79.5	75.6	73.8	73.1
510	82.3	81.5	81.5	80.3	79.4	78.8	78.1	76.8	76.3	77.5	77.4	78.4	79.2	79.9	79.2	77.3	73.3	71.6	71.8
630	79.5	78.9	79.3	77.8	76.8	76.3	75.7	74.4	73.9	75.1	74.9	76.3	76.8	77.6	76.8	75.8	71.8	69.3	68.6
800	76.9	76.3	76.3	75.2	74.2	73.7	73.2	72.6	71.5	72.9	72.4	73.6	74.4	75.1	74.4	72.6	68.6	66.3	66.2
1000	74.3	73.7	73.6	72.5	71.6	71.3	70.7	69.5	68.4	70.1	69.6	71.0	71.9	72.6	72.0	70.2	66.2	64.5	63.8
1250	71.5	70.9	70.7	69.8	68.8	68.2	68.0	66.9	66.3	67.3	67.1	68.4	69.3	70.0	69.4	67.6	63.6	62.0	61.3
1500	68.7	68.0	67.8	67.0	65.9	65.4	65.3	64.2	63.6	64.5	64.5	65.7	66.5	67.3	66.7	65.0	60.8	59.4	58.7
2000	65.8	65.1	64.8	64.2	62.9	62.5	62.6	61.4	60.9	61.6	61.3	62.3	63.7	64.5	63.9	62.2	58.8	56.7	55.9
2500	62.6	61.8	61.5	60.9	59.7	59.2	59.4	58.2	57.7	58.4	58.0	59.7	60.6	61.4	60.7	59.0	54.8	53.6	52.9
3150	59.6	58.3	57.3	57.4	56.2	55.7	56.0	54.8	54.3	54.9	54.5	56.2	57.2	58.0	57.3	55.6	51.4	50.3	49.5
4000	55.1	54.4	53.3	53.5	52.3	51.8	52.2	51.0	50.5	51.1	50.6	52.4	53.3	54.2	53.5	51.7	47.5	46.5	45.9
5100	50.8	50.1	49.5	49.3	48.0	47.5	48.0	46.7	46.2	46.8	46.3	48.1	49.1	49.9	49.2	47.3	43.2	42.4	41.7
6300	46.3	45.6	45.0	44.8	43.5	43.1	43.6	42.3	41.8	42.4	41.8	43.5	44.6	45.4	44.7	42.8	38.7	38.3	37.2
8000	42.6	41.8	41.2	40.9	39.7	39.1	39.7	38.4	37.9	38.4	37.9	39.7	40.8	41.7	41.0	39.2	34.9	34.3	33.6
10000	38.6	37.8	37.1	36.8	35.5	35.0	35.6	34.2	33.8	34.2	33.8	35.6	36.8	37.7	37.1	35.3	30.9	30.3	29.5
12500	34.3	33.4	32.8	32.5	31.1	30.6	31.1	29.8	29.4	29.7	29.4	31.2	32.5	33.4	32.7	31.1	26.6	26.3	25.3
15000	29.7	28.7	28.1	27.8	26.4	25.8	26.4	25.0	24.7	25.1	24.9	26.5	27.8	28.7	28.1	26.5	21.9	21.2	20.5
20000	24.7	23.7	23.1	22.8	21.4	20.8	21.4	20.0	19.6	20.3	20.1	21.4	22.8	23.7	23.0	21.5	16.9	16.3	15.4
25000	19.4	18.3	17.8	17.4	16.1	15.4	15.8	14.7	14.4	15.6	15.4	16.1	17.5	18.4	17.0	16.1	11.5	13.4	13.8

(TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT: (OPERATIONS: (METEOROLOGY: (IDENTIFICATION:)
 (C-130H,N,P AIRCRAFT (C-130H,N,P () OMEGA 8.2)
 (ENG. T56-A-15 (LOW IDLE () TEST 76-521-001)
 (GROUND RUNUP (SINGLE ENGINE () RUN 01) AIRCRAFT CODE 521)
 ((860 IN-L95 () DELTA N = -5.1 DB () PROFILE VERSION A)
 ((() 14 DEC 76 () PAGE J1)
 ()))))

ANGLE IN DEGREES	PROFLT										TOTAL									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
C-130H,N,P AIRCRAFT																			
ENG. T56-A-15																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-521-001																			
RUN 02																			
AIRCRAFT CODE 521																			
OPERATION CODE 04013																			
PROFILE VERSION A																			
14 DEC 76																			
PAGE 02																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = -3.1 DB																			
ANGLE (DEGREES)																			
BAND CENTER																			
FREQ (HZ)																			
50	73	73	72	73	72	70	60	70	80	90	100	110	120	130	140	150	160	170	180
63	84	88	85	87	87	88	91	90	92	91	71	72	73	73	73	72	71	76	78
80	77	78	77	76	76	75	77	77	76	79	78	78	79	79	81	76	75	73	73
100	78	78	77	77	77	76	76	76	75	75	75	84	83	82	83	78	74	71	72
125	92	92	92	90	89	89	88	87	85	86	85	84	84	89	90	85	80	76	78
160	89	88	87	87	85	85	88	87	84	84	83	81	82	87	86	87	80	81	79
200	92	92	91	92	91	87	85	84	82	81	82	84	87	88	91	88	80	78	78
250	91	92	92	90	89	88	87	84	83	82	81	82	87	83	86	87	80	81	79
315	95	95	94	93	92	91	90	88	84	83	83	85	87	90	91	90	84	82	80
400	92	92	91	90	88	85	86	84	81	82	83	84	86	89	90	86	80	77	78
500	88	88	88	86	84	84	82	80	81	79	79	80	82	82	82	83	78	73	76
630	90	90	88	87	84	82	83	83	79	81	81	82	83	85	83	83	78	75	75
800	85	85	84	82	81	80	78	78	78	78	79	79	79	80	80	78	75	72	72
1000	85	84	84	83	81	79	79	79	78	79	79	79	79	80	79	77	74	70	71
1250	82	81	80	79	79	79	79	78	75	77	77	76	76	76	78	75	71	68	69
1600	82	82	80	80	81	80	80	79	78	77	77	76	75	78	78	74	70	68	67
2000	81	82	80	79	80	78	78	78	75	76	76	77	77	77	77	72	67	67	65
2500	82	81	79	77	78	75	76	76	75	75	76	76	76	76	75	71	65	65	63
3150	76	77	76	76	76	76	76	75	75	75	76	76	76	76	75	71	64	55	62
4000	70	75	74	73	73	73	73	73	73	73	74	74	75	74	73	69	62	63	61
5000	75	74	73	72	72	71	70	72	71	72	73	73	74	73	73	67	60	61	59
6300	78	77	76	74	72	72	71	71	71	71	73	73	73	72	71	66	59	60	58
8000	63	82	81	79	77	75	75	74	71	73	74	73	75	74	74	67	50	62	60
10000	69	68	67	66	65	64	65	66	60	58	59	69	70	68	68	62	56	56	56
OVERALL	101	101	101	100	99	98	98	97	90	97	97	97	99	100	101	97	91	80	89

TABLE: PERCEIVED NOISE LEVEL (PNL)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: C-130H, N, P AIRCRAFT																			
EN: 156-A-15																			
GROUND RUNUP																			
DISTANCE (FEET)																			
3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	111.4	111.4	110.5	109.6	108.4	107.5	107.0	106.1	105.1	105.9	105.9	105.3	105.3	105.6	105.6	99.6	98.0	97.4	
250	109.3	109.2	108.4	107.4	106.3	105.3	104.8	103.9	102.4	103.0	103.8	103.6	103.6	103.6	103.6	97.4	95.9	95.2	
315	107.1	107.0	106.2	105.2	104.1	103.1	102.6	101.7	100.1	100.8	101.6	101.3	101.3	101.3	101.3	95.2	93.7	92.9	
400	104.8	104.8	103.9	103.0	101.8	100.9	100.4	99.4	97.8	98.4	99.2	99.0	101.6	102.2	102.2	93.0	91.4	90.7	
500	102.5	102.4	101.3	100.7	99.5	98.6	98.0	97.1	95.3	96.0	96.7	96.7	99.2	99.7	99.7	90.7	89.0	88.3	
630	100.5	100.0	99.2	98.2	97.1	96.1	95.6	94.6	92.7	93.4	94.1	94.2	96.6	97.2	97.2	88.4	86.6	85.9	
800	97.5	97.5	96.7	95.7	94.6	93.6	93.1	92.1	89.9	90.6	91.4	91.6	93.9	94.4	94.4	85.8	84.1	83.3	
1000	94.9	94.9	94.3	93.1	91.9	91.0	90.4	89.4	87.3	87.7	88.4	88.9	91.2	91.5	91.5	83.1	81.4	80.7	
1250	91.0	91.0	91.0	90.0	88.8	87.9	87.3	86.3	84.3	84.4	85.2	85.7	88.1	88.5	88.5	80.1	78.3	77.5	
1500	88.0	88.0	87.8	86.8	85.5	84.5	84.0	82.9	80.8	81.2	81.9	82.4	84.7	85.6	85.6	76.9	75.0	74.8	
2000	85.7	85.5	84.8	83.7	82.3	80.9	80.8	79.5	77.4	77.9	78.7	79.2	81.4	82.5	82.5	73.9	71.6	71.7	
2500	81.9	81.6	80.9	79.9	78.4	76.9	76.8	75.6	73.5	73.9	74.7	75.2	77.4	78.6	78.6	70.0	68.1	67.8	
3150	77.6	77.4	76.6	75.6	74.1	72.5	72.5	71.5	69.4	70.0	70.4	71.1	73.0	74.2	74.2	65.8	64.0	63.4	
4000	73.1	73.0	71.9	70.8	69.2	67.7	67.8	67.1	64.7	65.5	65.8	66.6	68.2	69.3	69.7	61.3	59.3	58.4	
5000	68.3	68.2	67.1	66.0	64.2	62.9	62.8	62.1	59.6	60.4	60.8	61.6	63.2	63.9	64.3	56.4	54.3	53.4	
6300	63.2	63.2	62.1	60.9	59.1	57.7	57.8	57.0	54.4	55.2	55.6	56.4	58.1	58.9	58.9	51.2	48.9	47.9	
8000	59.2	59.2	58.0	56.9	54.9	53.4	53.4	52.6	49.9	50.7	51.1	51.9	53.7	54.6	54.6	46.6	44.4	43.1	
10000	54.7	54.7	53.6	52.4	50.2	48.8	48.4	47.5	44.9	45.5	45.8	46.8	48.9	50.0	50.0	41.6	39.1	37.8	
12500	49.7	49.7	48.5	47.2	44.6	43.5	42.8	41.8	38.7	39.2	39.6	41.0	43.2	44.9	44.9	35.3	33.6	31.6	
16000	43.7	43.6	42.9	41.3	38.4	37.1	36.1	34.7	32.3	32.1	32.7	34.3	36.9	39.5	40.0	28.9	27.0	24.6	
20000	37.6	37.3	36.7	34.8	32.2	30.9	29.3	26.1	22.5	23.1	24.0	26.1	30.4	33.0	33.5	19.7	15.7	14.1	
25000	30.2	30.0	29.0	27.8	22.9	20.3	19.5	15.3	8.0	7.2	11.6	15.7	21.0	25.1	25.7	13.1	10.6	4.5	

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
(C-130H,N,P AIRCRAFT															
(ENG. T56-A-15															
(GRUND RUNUP															
(NOISE SOURCE/SUBJECT:															
((OPERATIONS:															
((C-130H,N,P															
((IDLE															
((SINGLE ENGINE															
((1400 IN-LBS															
((DISTANCE															
(((FEET)															
((0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180)															
((200 113.6 112.9 112.1 111.1 104.8 106.9 108.1 107.8 105.8 106.6 107.5 107.3 109.6 110.3 109.9 106.3 109.2 98.7 99.0)															
((250 110.8 111.8 110.4 108.9 107.6 106.7 105.9 104.9 103.6 104.4 105.4 106.4 107.5 108.1 107.8 104.2 98.0 96.5 95.8)															
((315 108.6 108.6 107.8 106.7 105.4 104.5 103.7 102.7 101.3 102.2 103.2 102.5 105.3 106.3 105.6 102.0 95.8 94.3 93.6)															
((400 106.3 106.3 105.5 104.5 103.2 102.3 101.5 100.4 98.9 99.9 100.8 100.2 103.3 103.7 103.3 99.8 93.6 92.0 91.4)															
((510 104.0 104.0 103.2 102.2 100.9 99.9 99.1 98.1 96.5 97.4 98.4 97.8 103.5 101.2 100.9 97.4 91.2 89.7 89.0)															
((630 101.6 101.6 100.8 99.8 98.4 97.5 96.7 95.6 93.8 94.1 95.7 95.3 97.9 98.6 98.3 95.1 88.8 87.2 86.6)															
((800 99.1 99.1 98.3 97.3 95.9 95.0 94.2 93.0 91.1 92.0 93.0 92.7 95.3 95.9 95.6 92.6 86.3 84.7 84.0)															
((1000 96.4 96.4 95.6 94.6 93.3 92.3 91.5 90.3 88.2 89.1 90.0 90.3 92.5 93.3 92.8 90.0 83.7 82.0 81.4)															
((1250 93.3 93.4 92.6 91.5 90.2 89.2 88.4 87.2 85.2 86.9 87.8 88.9 90.1 90.1 89.0 86.7 80.7 79.0 78.4)															
((1500 90.3 91.1 89.4 88.3 86.9 85.9 85.1 83.9 81.9 82.6 83.5 84.0 85.4 86.1 87.1 84.0 77.5 75.7 75.5)															
((2000 87.3 87.1 86.4 85.3 83.6 82.3 81.9 80.5 78.5 79.4 80.4 81.3 82.7 83.4 84.0 80.1 74.4 72.3 72.4)															
((2500 83.4 83.2 82.5 81.4 79.7 78.3 77.9 76.5 74.7 75.4 76.4 77.4 78.8 80.1 80.0 76.2 70.7 68.9 68.5)															
((3150 79.1 78.9 78.2 77.1 75.4 73.8 73.6 72.5 70.5 71.5 72.0 72.2 74.4 75.7 75.7 71.8 66.3 64.7 64.1)															
((4000 74.3 74.3 73.2 72.1 70.3 68.8 68.7 67.8 65.7 66.7 67.1 67.5 69.3 70.5 70.5 67.2 61.7 59.8 59.3)															
((5000 69.2 69.2 68.1 66.9 65.0 63.6 63.5 62.6 60.3 61.3 61.8 62.3 64.0 64.8 64.8 62.2 56.7 54.7 53.8)															
((6300 63.9 63.9 62.7 61.6 59.6 58.2 58.2 57.4 54.9 55.8 56.2 56.8 58.5 59.2 59.2 56.9 51.4 49.2 48.1)															
((8000 59.5 59.5 58.3 57.2 55.1 53.7 53.6 52.7 50.1 51.0 51.4 52.1 54.0 54.9 54.8 52.6 46.7 44.5 43.3)															
((10000 54.7 54.7 53.6 52.4 50.2 48.8 48.4 47.5 44.8 45.5 45.6 46.8 48.9 50.0 50.3 47.9 41.6 39.1 37.8)															
((12500 49.7 49.7 48.5 47.2 44.6 43.5 42.8 41.8 38.7 39.2 39.6 41.0 43.2 44.9 45.5 42.3 35.3 33.6 31.5)															
((15000 43.7 43.8 42.9 41.3 38.4 37.1 36.1 34.7 32.3 32.7 33.1 34.0 35.9 36.9 37.5 34.6 28.9 27.3 24.5)															
((20000 37.6 37.3 36.7 34.8 32.2 30.0 29.3 26.1 22.5 23.1 24.8 26.1 29.4 33.0 33.5 23.5 19.7 15.7 14.1)															
((25000 34.2 34.0 33.8 31.9 29.9 28.9 28.3 25.1 21.6 22.0 23.6 25.1 28.1 31.0 31.7 21.1 16.6 14.5 13.7)															

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (LWA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
C-130H,N,P AIRCRAFT																				
ENG. 156-A-15																				
GROUND RUNUP																				
(OPERATION:																				
C-130H,N,P																				
(IDLE																				
(SINGLE ENGINE																				
(1400 IN-LBS																				
METEOROLOGY:																				
TEMP = 53 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 71 %																				
DELTA N = -5.1 03																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 76-521-031																				
RUN 02																				
AIRCRAFT CODE 521																				
OPERATION CODE 6413																				
PROFILE VERSION A																				
14 DEC 76																				
PAGE F2																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190
200	98.3	98.2	97.4	96.3	95.3	93.7	93.4	92.5	90.0	91.0	91.7	92.1	94.0	94.4	94.6	92.2	86.8	84.8	84.3	
250	96.2	96.1	95.3	94.2	92.9	91.0	91.3	90.4	83.4	88.9	89.6	89.3	91.9	92.3	92.6	90.1	84.8	82.7	82.3	
315	94.1	94.0	93.2	92.1	91.8	90.5	89.2	88.3	86.3	86.7	87.4	87.8	89.8	90.2	90.5	88.1	82.7	80.6	80.2	
400	91.9	91.8	91.0	89.9	88.6	87.4	87.0	86.1	84.1	84.5	85.2	85.6	87.5	88.0	88.3	86.0	80.6	78.5	78.1	
500	89.7	89.6	88.9	87.7	86.4	85.2	84.8	83.9	81.3	82.2	82.5	83.4	85.4	85.9	86.1	83.8	78.5	76.4	75.3	
630	87.5	87.4	86.6	85.5	84.2	82.9	82.5	81.6	79.5	79.9	80.6	81.1	83.1	83.5	83.8	81.6	76.3	74.1	73.7	
800	85.2	85.1	84.3	83.2	81.9	80.6	80.2	79.3	77.1	77.5	78.2	78.7	80.7	81.2	81.5	79.3	74.0	71.8	71.4	
1000	82.8	82.8	82.0	80.9	79.5	78.2	77.8	76.9	74.0	75.1	75.7	76.3	78.3	78.8	79.1	77.0	71.7	69.5	69.1	
1250	80.3	80.2	79.5	78.3	76.9	75.6	75.3	74.3	72.0	72.5	73.1	73.7	75.6	76.2	76.5	74.4	69.2	67.0	66.5	
1500	77.7	77.6	76.8	75.7	74.2	72.8	72.6	71.6	69.3	69.8	70.4	71.1	72.9	73.6	73.9	71.7	66.6	64.3	64.0	
2000	75.0	74.9	74.1	73.0	71.4	70.0	69.8	68.8	66.5	67.0	67.6	68.2	70.0	70.9	71.1	69.0	64.0	61.6	61.3	
2500	71.9	71.8	71.0	69.8	68.2	66.8	66.6	65.7	63.4	63.9	64.5	65.1	66.8	67.6	67.8	65.8	60.9	58.5	58.2	
3150	68.5	68.4	67.6	66.4	64.8	63.3	63.1	62.3	60.0	60.6	61.1	61.7	63.2	64.1	64.2	62.4	57.6	55.1	54.8	
4000	64.7	64.6	63.8	62.5	60.9	59.4	59.3	58.0	56.3	56.9	57.4	58.1	59.3	60.2	60.3	58.5	53.9	51.3	51.1	
5000	60.4	60.3	59.5	58.3	56.6	55.1	55.0	54.3	52.1	52.8	53.2	53.8	55.0	55.3	55.9	54.2	49.7	47.1	46.9	
6300	55.9	55.9	55.0	53.8	52.1	50.6	50.5	49.9	47.7	48.4	48.8	49.4	50.5	51.4	51.3	49.7	45.3	42.7	42.4	
8000	52.2	52.2	51.3	50.1	48.3	46.7	46.6	46.0	43.8	44.5	44.9	45.2	46.7	47.7	47.7	46.1	41.6	39.0	38.7	
10000	48.2	48.2	47.4	46.1	44.2	42.5	42.5	41.7	39.5	40.2	40.6	41.3	42.6	43.7	43.8	42.2	37.6	35.1	34.7	
12500	43.8	43.8	43.3	41.8	39.7	38.3	38.0	37.2	34.9	35.0	35.0	36.0	38.3	39.4	39.6	37.9	33.2	30.8	30.4	
15000	39.6	39.6	39.1	38.3	37.1	35.0	35.0	34.3	32.3	32.6	32.6	33.1	35.9	36.8	37.0	35.1	30.4	28.2	27.7	
20000	33.8	33.9	33.2	32.0	29.9	28.5	28.2	27.0	24.9	25.3	25.9	26.7	28.7	29.3	29.3	28.3	23.1	21.1	20.5	
25000	28.2	28.3	27.6	26.4	24.4	23.1	22.7	21.4	19.5	19.9	20.5	21.1	23.5	24.7	25.2	22.9	17.5	15.5	15.0	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATIONS:									
(C-130M,N,P AIRCRAFT										) OMEGA 0.2									
(ENG. T56-A-15										) TEST 76-521-301									
(GROUND RUNUP										) RUN 02									
(OPERATION:										) AIRCRAFT CODE 521									
(C-130M,N,P										) OPERATION CODE 04013									
(IDLE										) PROFILE VERSION A									
(SINGLE ENGINE										) 14 DEC 76									
(1400 IN-LBS										) PAGE 62									
										) METEOROLOGY:									
										) TEMP = 59 F									
										) BAR PRESS = 29.92 IN HG									
										) REL HUMID = 70 %									
										) DELTA N = -5.1 DB									
										) ANGLE (DEGREES)									
DISTANCE																			
(FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	99.8	99.7	99.0	97.8	96.4	95.1	94.5	93.5	91.7	92.5	93.3	93.2	95.4	95.9	95.7	92.9	87.4	85.4	85.0
250	97.7	97.6	96.9	95.7	94.3	93.0	92.4	91.4	89.0	90.2	91.2	91.1	93.3	93.8	93.6	90.8	85.3	83.4	82.3
315	95.6	95.5	94.8	93.6	92.2	90.9	90.3	89.2	87.4	88.2	89.0	88.9	91.1	91.7	91.6	88.7	83.3	81.3	80.9
400	93.4	93.4	92.7	91.4	90.0	88.7	88.1	87.1	85.2	85.0	86.8	86.7	89.3	89.5	89.4	86.6	81.2	79.2	78.7
500	91.2	91.2	90.5	89.3	87.8	86.5	85.9	84.8	83.0	83.7	84.5	84.5	86.7	87.3	87.2	84.5	79.0	77.0	76.6
630	89.0	88.9	88.2	87.0	85.6	84.3	83.7	82.6	80.8	81.4	82.2	82.2	84.4	85.0	84.9	82.3	76.8	74.8	74.4
800	86.7	86.7	86.0	84.8	83.3	82.0	81.3	80.2	78.3	79.0	79.8	79.8	82.0	82.7	82.6	80.0	74.6	72.5	72.1
1000	84.4	84.3	83.6	82.4	80.9	79.6	79.0	77.8	75.8	76.5	77.3	77.4	79.6	80.3	80.2	77.7	72.3	70.1	69.8
1250	81.8	81.8	81.1	79.9	78.3	77.0	76.4	75.3	73.2	73.9	74.7	74.8	77.0	77.7	77.6	75.1	69.8	67.6	67.3
1500	79.2	79.2	78.5	77.2	75.6	74.2	73.7	72.6	70.5	71.3	72.0	72.1	74.2	75.1	75.0	72.4	67.2	65.0	64.7
2000	76.5	76.5	75.7	74.5	72.8	71.3	70.3	69.8	67.7	68.5	69.2	69.3	71.3	72.3	72.2	69.7	64.5	62.2	62.0
2500	73.4	73.4	72.5	71.3	69.6	68.2	67.7	66.6	64.6	65.4	66.1	66.2	68.1	69.1	69.3	66.5	61.5	59.2	58.9
3150	70.0	70.0	69.2	67.9	66.1	64.7	64.2	63.3	61.2	62.1	62.7	62.9	64.6	65.6	65.3	63.1	58.2	55.8	55.5
4000	65.9	65.9	65.1	63.8	62.4	60.5	60.2	59.3	57.2	58.1	58.7	58.9	60.4	61.4	61.1	59.0	54.4	51.8	51.6
5000	61.3	61.3	60.5	59.2	57.4	55.9	55.7	54.9	52.8	53.7	54.2	54.3	55.8	56.8	56.5	54.6	50.1	47.5	47.3
6300	56.6	56.5	55.7	54.4	52.7	51.1	50.9	50.3	48.2	49.0	49.5	49.8	51.1	52.0	51.7	50.0	45.6	42.9	42.7
8000	52.5	52.5	51.7	50.4	48.5	47.0	46.8	46.2	44.0	44.8	45.2	45.7	47.0	48.0	47.9	46.2	41.7	39.1	38.9
10000	48.2	48.2	47.4	46.1	44.2	42.5	42.5	41.7	39.5	40.2	40.6	41.3	42.6	43.7	43.4	42.2	37.6	35.1	34.7
12500	43.8	43.8	43.0	41.8	39.7	38.3	38.0	37.2	34.9	35.6	36.0	36.8	38.3	39.4	39.6	37.9	33.2	30.8	30.4
16000	39.0	39.1	38.3	37.1	35.0	33.6	33.3	32.3	30.1	30.6	31.1	31.9	33.7	34.9	35.1	33.3	28.4	26.2	25.7
20000	33.8	33.9	33.2	32.0	29.9	28.5	28.2	27.0	24.9	25.3	25.9	26.7	28.7	29.9	30.3	28.3	23.1	21.1	20.5
25000	28.2	28.3	27.6	26.4	24.4	23.1	22.7	21.4	19.5	19.9	20.5	21.1	23.5	24.7	25.2	22.9	17.5	15.5	15.0

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

C-130H, N/P AIRCRAFT

ENG. T56-A-15

GROUND RUNUP

OPERATIONS:

C-130H, N/P

IDLE

SINGLE ENGINE

1400 IN-LBS

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 73 %

DELTA N = -5.1 DB

IDENTIFICATION:

OMEGA 8.2

TEST 76-521-J81

RUN 92

AIRCRAFT CODE 521

OPERATION CODE 84013

PROFILE VERSION A

14 DEC 76

PAGE J2

PSPLI												ASAL												TSAL																																																																																																																																			
20												30												40												50												60												70												80												90												100												110												120																																			
0												10												20												30												40												50												60												70												80												90												100												110												120											
10												20												30												40												50												60												70												80												90												100												110												120																							
20												30												40												50												60												70												80												90												100												110												120																																			
30												40												50												60												70												80												90												100												110												120																																															
40												50												60												70												80												90												100												110												120																																																											
50												60												70												80												90												100												110												120																																																																							
60												70												80												90												100												110												120																																																																																			
70												80												90												100												110												120																																																																																															
80												90												100												110												120																																																																																																											
90												100												110												120																																																																																																																							
100												110												120																																																																																																																																			
110												120																																																																																																																																															
120																																																																																																																																																											
130																																																																																																																																																											
140																																																																																																																																																											
150																																																																																																																																																											
160																																																																																																																																																											
170																																																																																																																																																											
180																																																																																																																																																											

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJ:CT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 521																			
C-130H,N,P AIRCRAFT (C-130H,N,P)) TEMP = 59 F) OPERATION CODE 04009																			
ENG. T56-A-15 (POWER RUNUP)) BAR PRESS =29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP (SINGLE ENGINE)) REL HUMID = 70 %) 14 DEC 76																			
(9600 IN-LBS) DELTA N = -5.1 DB) PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	71	72	72	70	72	71	73	75	78	79	79	79	76	75	73	67	60	53	
63	89	85	91	88	91	92	95	98	104	104	105	106	102	98	94	88	82	75	68
80	78	77	80	77	80	81	83	86	92	93	94	94	91	86	83	79	72	65	59
100	76	75	74	72	74	75	76	75	75	77	78	79	80	79	76	73	66	59	53
125	82	81	79	77	80	84	82	87	91	91	88	86	86	86	81	74	67	61	54
160	81	80	77	76	77	79	79	81	84	84	83	83	83	83	81	71	64	57	51
200	80	80	77	78	78	83	80	79	81	82	81	82	80	80	80	69	62	55	49
250	82	78	79	81	79	83	81	80	82	84	81	81	81	82	81	69	62	55	49
315	85	81	81	82	81	88	84	81	84	84	83	83	84	81	72	66	59	52	
400	81	81	81	79	80	85	80	78	82	82	80	82	82	81	78	71	65	58	51
500	81	79	81	80	80	87	81	79	83	82	81	82	81	80	78	72	66	59	52
630	82	81	80	80	79	84	80	77	82	82	78	79	80	79	76	71	65	58	51
800	78	80	78	78	79	84	79	76	79	80	77	76	76	74	70	63	56	50	
1000	80	80	80	78	77	82	77	76	79	80	77	76	76	73	68	62	55	48	
1250	78	78	78	77	76	80	77	77	78	79	76	76	75	73	68	62	55	48	
1600	79	78	78	78	79	82	79	79	80	79	77	77	77	75	68	62	55	48	
2000	79	79	78	77	79	80	79	78	79	78	76	77	77	74	67	60	53	47	
2500	80	80	80	78	79	79	78	77	78	76	75	75	76	73	66	59	53	46	
3150	79	79	80	78	79	79	79	79	79	76	75	75	74	72	66	60	53	46	
4000	77	78	78	77	78	78	77	77	77	75	73	74	73	70	64	58	51	44	
5000	77	77	78	76	77	78	77	77	76	74	73	73	72	70	63	56	50	43	
6300	77	78	79	76	77	77	76	75	75	72	71	71	71	69	67	61	55	48	
8000	81	82	83	80	78	77	76	75	74	72	70	71	71	68	66	59	53	46	
10000	71	71	73	71	71	71	71	71	70	69	68	68	69	67	66	58	52	45	
OVERALL	95	94	95	93	94	97	97	99	105	105	106	106	103	99	96	90	83	77	70

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECTS																
C-130H, N, P AIRCRAFT																
ENG. T56-A-15																
GROUND RUNUP																
OPERATIONS:																
C-130H, N, P																
POWER RUNUP																
SINGLE ENGINE																
9500 IN-LBS																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA M = -5.1 DB																
IDENTIFICATIONS:																
OMEGA 6.2																
TEST 76-521-001																
RUN 03																
AIRCRAFT CODE 521																
OPERATION CODE 04009																
PROFILE VERSION A																
14 DEC 76																
PAGE 03																
DISTANCE																
(FEET)	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
250	107.5	107.1	107.4	106.0	106.7	106.4	107.2	106.8	109.3	109.0	108.5	108.8	107.2	105.0	102.4	96.0
250	105.2	104.9	105.1	103.7	104.5	106.2	104.9	104.5	107.1	106.9	106.3	106.7	105.1	102.9	100.3	93.8
315	102.9	102.5	102.8	101.4	102.1	103.9	102.6	102.2	104.9	104.7	104.2	104.5	102.9	100.7	98.0	91.5
400	100.5	100.1	100.3	98.9	99.7	101.5	100.2	99.8	102.7	102.5	102.0	102.3	100.7	98.4	95.8	89.1
500	97.9	97.6	97.8	96.4	97.1	99.0	97.7	97.3	100.4	100.2	99.7	100.1	98.4	96.1	93.5	86.5
600	95.3	94.9	95.0	93.7	94.4	96.3	95.0	94.6	98.1	97.9	97.4	97.7	96.0	93.7	91.0	83.8
800	92.5	92.1	92.2	90.8	91.5	93.6	92.2	91.9	95.6	95.5	95.0	95.3	93.6	91.2	88.3	81.1
1000	89.5	89.2	89.1	87.8	88.5	90.9	89.2	89.3	93.1	93.0	92.5	92.9	91.1	88.7	85.5	78.2
1250	86.4	86.0	85.9	84.6	85.3	88.1	85.3	85.2	89.4	89.3	88.9	89.3	87.5	85.7	82.4	75.2
1500	82.9	82.6	82.4	81.2	81.9	85.0	82.3	82.4	87.3	87.0	86.6	87.0	85.0	83.9	80.7	73.7
2000	78.3	78.0	78.7	77.5	78.2	81.9	78.7	78.3	83.1	83.1	82.8	83.3	80.8	77.9	75.0	68.4
2500	75.2	74.8	74.6	73.4	74.1	78.4	74.7	74.4	78.4	78.5	78.1	78.6	76.3	73.7	71.4	64.7
3150	70.9	70.4	70.1	69.3	69.8	74.4	70.2	70.1	73.4	73.4	72.9	73.4	71.2	69.5	67.1	60.5
4000	66.3	65.9	65.4	64.7	65.0	69.9	65.7	65.2	67.8	67.7	67.0	67.5	65.9	64.0	62.5	55.6
5000	61.3	60.9	60.4	59.8	59.8	65.0	60.5	60.1	62.7	62.7	61.1	61.6	60.9	59.8	57.3	49.9
6000	56.0	55.5	55.0	54.3	54.3	59.9	55.1	54.3	57.4	57.5	55.5	56.1	55.5	54.4	51.8	44.1
8000	51.4	50.9	50.4	49.7	49.6	55.7	50.2	49.1	53.1	53.2	51.1	51.8	51.1	49.8	46.9	38.9
10000	45.9	45.4	45.0	44.1	44.0	51.2	45.2	43.7	48.2	48.2	46.1	46.9	46.1	44.7	41.6	33.2
12500	39.6	39.3	39.0	38.3	37.7	45.8	39.2	37.2	42.3	42.3	40.3	41.1	39.9	38.5	35.5	26.2
15000	32.4	32.0	32.3	31.4	31.1	39.7	32.1	30.1	35.6	35.6	33.5	34.0	33.5	32.0	28.0	15.4
20000	23.5	22.2	24.0	23.3	22.3	32.6	24.3	19.5	28.3	28.3	26.7	27.5	25.2	22.9	18.0	4.6
25000	8.1	6.8	10.3	8.9	8.6	24.3	9.8	6.8	18.7	18.0	17.5	19.7	14.1	8.9	8.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE I
TONE-CORRECTED, PERCEIVED NOISE LEVEL (PN08)
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATIONS)																			
C-130H,N,P AIRCRAFT (C-130H,N,P																			
ENG. T56-A-15 (POWER RUNUP																			
GROUND RUNUP (SINGLE ENGINE																			
(9600 IN-LBS																			
IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 76-521-001																			
) RUN 03																			
) AIRCRAFT CODE 521																			
) OPERATION CODE 04J09																			
) PROFILE VERSION A																			
) 14 DEC 76																			
) PAGE E3																			
DISTANCE																			
ANGLE (DEGREES)																			
(FEET)	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
230	108.6	108.4	108.5	107.0	107.4	109.7	108.0	108.3	111.1	110.7	109.8	109.6	104.3	105.8	102.4	96.0	89.1	82.2	75.2
250	106.3	106.1	106.2	104.7	105.2	107.4	105.7	106.1	109.4	108.6	107.7	107.5	103.9	103.6	100.3	93.8	86.8	79.8	72.9
315	104.0	103.8	103.9	102.4	102.8	105.1	103.4	103.8	106.8	106.4	105.6	105.3	103.7	101.4	98.0	91.5	84.4	77.5	70.5
400	101.5	101.4	101.4	99.9	100.4	102.7	101.0	101.3	104.6	104.2	103.4	103.2	101.5	99.2	95.8	89.1	82.0	75.0	68.0
500	99.0	98.8	98.9	97.4	97.8	100.2	98.5	98.8	102.3	102.0	101.1	100.9	99.2	96.3	93.5	86.5	79.4	72.5	65.4
630	96.3	96.2	96.1	94.7	95.1	97.6	95.8	96.2	99.3	99.6	98.6	98.6	96.8	94.3	91.0	83.8	76.8	69.8	62.5
810	93.5	93.4	93.3	91.8	92.3	94.3	93.0	93.5	97.4	97.2	96.4	96.2	94.4	92.3	88.3	81.1	74.0	66.9	59.7
1020	93.6	93.4	90.2	88.8	89.2	92.2	90.0	90.8	94.9	94.7	93.9	93.7	91.8	89.4	85.5	78.2	71.0	63.8	56.5
1250	87.4	87.2	87.3	85.6	86.1	89.3	86.7	87.8	92.2	92.0	91.3	91.1	89.2	86.4	82.4	75.2	67.8	60.6	52.8
1630	84.0	83.8	83.5	82.2	82.8	85.3	83.1	83.9	88.9	88.7	88.0	87.8	85.8	82.7	78.7	71.7	64.5	57.3	48.9
2100	80.3	80.1	79.8	78.5	78.9	83.1	79.5	79.9	84.3	84.3	84.1	84.1	81.6	78.7	75.0	68.4	61.2	53.6	44.7
2520	76.2	76.0	75.7	74.4	74.8	79.6	75.5	75.9	80.3	80.2	79.4	79.4	77.0	74.5	71.4	64.7	57.4	49.4	40.3
3150	71.9	71.6	71.3	70.3	70.5	75.6	71.3	71.6	75.2	75.1	74.2	74.2	72.0	70.3	67.1	60.5	52.9	44.1	35.3
4300	67.2	66.8	66.3	65.5	65.6	70.3	66.3	66.5	69.2	69.1	68.1	68.1	65.5	62.5	59.6	52.9	44.1	35.3	26.5
5000	62.0	61.6	61.1	60.4	60.3	65.8	61.8	61.0	63.8	63.7	62.0	62.1	61.3	60.2	57.3	49.9	41.5	32.3	17.5
6300	58.4	58.0	57.4	56.7	56.8	61.4	57.4	56.4	59.1	58.2	56.0	56.4	55.8	54.7	51.8	44.1	35.5	23.4	8.4
8000	51.6	51.1	50.6	49.9	49.7	56.0	50.6	49.4	53.5	53.5	51.4	51.9	51.2	49.3	46.3	38.9	29.3	14.5	
10000	45.9	45.4	44.1	44.0	44.0	51.2	45.2	43.7	48.2	48.2	46.1	46.9	46.1	44.7	41.6	33.2	23.9	5.8	
12500	39.6	38.9	38.0	38.3	37.7	45.8	39.2	37.5	42.3	42.5	40.3	41.1	39.9	38.6	35.5	26.2	11.5		
16000	32.4	32.0	32.3	31.4	31.1	39.7	32.1	30.1	35.6	36.3	33.5	34.6	33.5	32.3	28.0	15.4	2.1		
20000	23.5	22.2	24.0	23.3	22.3	32.6	24.3	19.5	28.3	29.3	26.7	27.5	26.2	22.9	18.0	4.6			
25000	8.1	6.8	10.3	8.9	8.6	24.3	9.8	6.8	16.7	18.0	17.5	19.7	14.1	8.3	8.1				
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (OAS)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130H, N, P AIRCRAFT																			
ENG. 156-A-15																			
GROUND RUNUP																			
OPERATION:																			
C-130H, N, P																			
POWER RUNUP																			
SINGLE ENGINE																			
9600 IN-LBS																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 79 %																			
DELTA M = -5.1 DB																			
IDENTIFICATIONS:																			
OMEGA 8.2																			
TEST 76-521-001																			
AIRCRAFT CODE 521																			
OPERATION CODE 0403																			
PROFILE VERSION A																			
14 DEC 76																			
PAGE F2																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
230	93.2	93.1	93.1	91.8	92.2	95.1	92.3	91.4	93.1	92.8	90.9	91.2	90.9	90.1	87.9	81.8	75.1	68.5	61.8
250	90.9	90.8	90.8	89.6	90.0	93.0	90.1	89.2	91.0	90.7	88.7	89.1	88.7	87.9	85.7	79.7	73.0	66.3	59.7
315	88.6	83.5	88.5	87.3	87.7	90.8	87.8	86.9	88.8	88.5	86.6	86.9	86.6	85.8	83.6	77.5	70.3	64.2	57.5
400	86.3	86.1	86.1	84.9	85.3	88.0	85.5	84.6	86.5	85.3	84.4	84.7	84.4	83.5	81.4	75.3	68.6	62.0	55.3
500	83.9	83.7	83.6	82.5	82.9	86.3	83.2	82.2	84.3	84.1	82.2	82.5	82.1	81.4	79.1	73.1	66.4	59.7	53.1
630	81.5	81.2	81.1	80.1	80.5	84.0	80.8	79.8	81.9	81.8	79.9	80.2	79.9	79.1	76.8	70.8	64.1	57.4	50.8
800	79.0	78.7	78.5	77.6	77.9	81.7	78.3	77.3	79.5	79.5	77.6	77.9	77.5	76.7	74.5	68.4	61.8	55.1	48.4
1000	76.5	76.1	75.9	75.0	75.3	79.3	75.7	74.7	77.1	77.1	75.2	75.6	75.1	74.3	72.0	66.0	59.4	52.7	46.0
1250	73.8	73.4	73.2	72.4	72.6	76.8	73.1	72.0	74.5	74.6	72.7	73.1	72.6	71.8	69.4	63.5	56.9	50.2	43.5
1500	71.6	70.7	70.4	69.6	69.8	74.2	70.3	69.1	71.8	71.9	69.9	70.3	69.9	69.1	66.7	60.9	54.2	47.6	40.9
2000	68.1	67.8	67.6	66.8	66.9	71.5	67.4	66.2	68.9	69.1	67.0	67.5	67.1	66.3	63.9	58.2	51.5	44.9	38.2
2500	65.0	64.8	64.5	63.7	63.8	68.5	64.2	63.0	65.8	66.1	63.8	64.3	64.0	63.1	60.8	55.2	48.6	41.9	35.2
3150	61.7	61.5	61.2	60.4	60.4	65.2	60.8	59.5	62.4	62.7	60.3	60.8	60.5	59.7	57.4	52.0	45.3	38.6	32.0
4000	58.0	57.8	57.5	56.8	56.7	61.8	57.1	55.7	58.6	59.1	56.5	56.9	56.7	55.9	53.6	48.4	41.7	35.1	28.4
5000	53.8	53.7	53.4	52.7	52.5	57.3	52.9	51.5	54.5	55.0	52.3	52.7	52.5	51.7	49.5	44.4	37.7	31.0	24.4
6300	49.4	49.3	49.0	48.3	48.1	53.1	48.4	47.0	50.1	50.6	47.9	48.2	48.1	47.3	45.0	40.0	33.4	26.7	20.0
8000	45.3	45.2	44.9	44.2	44.0	49.2	44.4	42.8	46.1	46.7	44.1	44.5	44.3	43.4	41.1	36.1	29.4	22.7	16.1
10000	40.9	40.8	40.5	39.9	39.6	45.0	40.1	38.4	42.0	42.5	40.1	40.5	40.2	39.3	36.9	31.8	25.1	18.5	11.8
12500	36.2	36.0	35.8	35.2	34.9	40.5	35.4	33.8	37.6	38.1	36.0	36.5	36.0	34.8	32.4	27.2	20.5	13.8	7.2
15000	31.0	30.8	30.7	30.1	29.8	35.8	30.5	29.0	33.4	33.4	31.8	32.4	31.5	30.1	27.7	22.2	15.5	8.8	2.2
20000	25.5	25.1	25.1	24.5	24.3	30.2	25.2	24.0	28.4	28.7	27.7	28.3	26.9	25.2	22.6	16.8	10.2	3.5	
25000	19.5	18.9	19.1	18.4	18.4	24.2	19.7	19.2	24.0	24.2	23.9	24.5	22.4	20.2	17.5	11.4	4.7		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OJA)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
C-130H, N, P AIRCRAFT															
ENJ. 150-A-15															
GROUND RUNUP															
OPERATIONS:															
C-130H, N, P															
POWER RUNUP															
SINGLE ENGINE															
9500 IN-LBS															
METEOROLOGY:															
TEMP = 59 F															
BAR PRESS = 29.92 IN HG															
REL HUMID = 73 %															
DELTA N = -5.1 DB															
AIRCRAFT CODE 521															
OPERATION CODE 0400															
PROFILE VERSION A															
14 DEC 76															
PAGE 63															
DISTANCE (FEET)															
ANGLE (DEGREES)															
90 100 110 120 130 140 150 160 170 180															
200	94.2	94.3	94.2	92.8	92.9	96.4	93.1	93.0	95.0	94.5	92.2	92.0	91.6	90.8	87.9
250	92.0	92.1	91.9	90.6	90.7	94.2	90.9	90.7	92.8	92.4	90.1	89.9	89.5	88.7	85.7
315	89.7	89.7	89.6	88.3	88.4	92.0	88.6	88.5	90.6	90.2	88.0	87.7	87.3	86.5	83.6
400	87.4	87.3	87.1	85.9	86.3	89.8	86.3	86.2	88.4	88.1	85.8	85.5	85.2	84.4	81.4
500	85.0	84.9	84.7	83.5	83.6	87.6	84.0	83.8	86.1	85.8	83.5	83.3	82.9	82.1	79.1
630	82.5	82.4	82.2	81.1	81.2	85.3	81.6	81.4	83.7	83.5	81.3	81.1	80.6	79.8	76.8
800	80.1	79.5	79.6	78.6	78.6	82.9	79.1	78.9	81.4	81.2	78.9	78.8	78.3	77.5	74.5
1000	77.5	77.3	77.0	76.0	76.0	80.5	76.5	76.2	78.9	78.8	76.5	76.4	75.9	75.1	72.1
1250	74.8	74.7	74.3	73.4	73.3	78.0	73.9	73.5	76.3	76.3	74.0	73.9	73.4	72.5	69.4
1500	72.0	71.9	71.5	70.6	70.5	75.4	71.1	70.7	73.6	73.6	71.2	71.2	70.7	69.8	66.7
2000	69.2	69.1	68.7	67.8	67.7	72.7	68.2	67.7	70.7	70.3	68.3	68.3	67.9	67.0	63.9
2500	66.1	66.0	65.6	64.7	64.5	69.7	65.0	64.5	67.0	67.0	65.2	65.1	64.7	63.9	60.8
3150	62.7	62.7	62.3	61.4	61.1	66.4	61.6	61.0	64.2	64.5	61.7	61.6	61.3	60.5	57.4
4000	58.8	58.8	58.3	57.6	57.3	62.6	57.7	56.9	60.1	60.4	57.6	57.6	57.4	56.6	53.6
5000	54.5	54.4	54.0	53.3	53.3	58.2	53.4	52.4	55.6	56.0	53.2	53.2	53.0	52.2	49.3
6300	49.8	49.8	49.4	48.7	48.4	53.6	48.7	47.8	50.8	51.3	48.5	48.5	48.4	47.5	44.5
8000	45.5	45.5	45.1	44.4	44.1	49.5	44.5	43.1	46.5	47.1	44.4	44.4	44.4	43.5	41.1
10000	40.9	40.8	40.5	39.9	39.6	45.0	40.1	38.4	42.0	42.5	40.1	40.6	40.2	39.3	36.9
12500	36.2	36.0	35.8	35.2	34.9	40.5	35.4	33.8	37.6	38.1	35.0	36.5	36.0	34.8	32.4
16000	31.0	30.8	30.7	30.1	29.8	35.6	30.5	29.0	33.0	33.4	30.4	32.4	31.5	30.1	27.7
20000	25.5	25.1	25.1	24.5	24.3	30.2	25.2	24.0	28.0	28.7	27.7	28.3	26.9	25.2	22.6
25000	19.5	18.9	19.1	18.4	18.4	24.2	19.7	18.2	22.0	24.2	23.9	24.5	22.4	20.2	17.5

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT: (OPERATION: (IDENTIFICATION:
 (C-130H,N,P AIRCRAFT (C-130H,N,P (OMEGA 8.2
 (ENG. T56-A-15 (POWER RUNUP (TEST 76-521-081
 (GROUND RUNUP (SINGLE ENGINE (RUN 03
 ((9500 IN-LBS ((AIRCRAFT CODE 521
 ((((OPERATION CODE 04009
 ((((PROFILE VERSION A
 ((((14 DEC 76
 ((((PAGE J3
 ((((METEOROLOGY: (TEMP = 59 F
 ((((BAR PRESS = 29.92 IN HG
 ((((REL HUMID = 70 %
 ((((DELTA M = -5.1 DB
 ((((P=PNLT T=ALT
 ((((A=AL

	10	20	30	40	50	60	70	80	90	100	110
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED AND PRESSURE LEVEL (DB)		IDENTIFICATION:																			
1/3 OCTAVE) OMEGA 8.2																			
DISTANCE = 50 FEET) TEST 76-521-001																			
) RUN 04																			
NOISE SOURCE/SUBJECT:) METEOROLOGY:																			
C-130H,N,P AIRCRAFT) TEMP = 59 F																			
ENG. T56-A-15) BAR PRESS =29.92 IN HG																			
GROUND RUNUP) REL HUMID = 70 %																			
) 14 DEC 76																			
) DELTA N = -5.1 DB																			
) PAGE C4																			
BAND CENTER		ANGLE (DEGREES)																			
FREQ (HZ)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	78	79	76	76	78	78	79	81	82	83	83	86	84	81	82	80	80	74	67	60	
63	88	93	94	94	91	93	100	103	107	109	106	112	110	102	101	97	08	82	75	68	
80	82	84	85	82	82	83	89	92	95	97	95	101	95	91	90	86	79	73	65	59	
100	83	83	82	81	81	81	81	82	81	81	81	83	83	84	83	81	75	69	62	55	
125	89	90	88	88	88	87	83	94	98	101	100	96	91	93	90	83	77	70	63	57	
150	83	83	87	85	85	85	85	83	90	92	92	89	88	88	88	87	84	74	67	60	
200	87	90	87	90	90	89	87	85	87	82	87	87	85	85	85	82	72	66	59	52	
250	89	90	91	93	93	90	89	88	87	87	86	86	87	87	86	82	70	64	57	50	
315	89	92	92	93	93	91	92	89	88	88	89	89	89	89	88	84	73	67	60	53	
400	85	88	89	87	87	88	87	87	86	85	84	85	87	86	84	83	72	66	59	52	
500	87	88	89	88	88	88	88	88	88	88	88	87	86	86	85	81	71	65	58	51	
630	87	87	87	87	87	87	87	87	87	87	86	85	84	84	82	81	72	65	58	52	
800	85	86	86	86	86	85	85	85	85	85	85	84	83	82	82	79	72	65	59	52	
1000	85	87	85	85	85	85	85	85	85	85	85	84	83	82	81	80	72	66	59	52	
1250	84	86	85	85	85	85	85	85	85	85	85	84	82	82	80	78	70	63	56	50	
1500	87	86	89	89	88	89	89	92	93	93	92	94	93	93	91	79	69	63	56	49	
2000	87	87	89	88	88	88	89	90	89	87	83	82	82	81	81	77	68	61	54	43	
2500	86	87	87	87	86	87	87	87	86	85	85	82	81	81	79	77	67	60	53	47	
3150	86	88	87	87	87	87	87	87	86	85	85	83	81	81	79	76	67	60	53	47	
4000	84	88	86	84	84	85	84	85	83	83	80	79	78	79	78	74	64	58	51	44	
5000	83	84	84	83	83	83	82	82	82	82	78	78	77	77	76	72	64	57	50	44	
6300	82	82	82	80	81	81	81	82	82	82	76	76	75	75	74	70	60	53	47	40	
8000	82	82	83	80	80	80	79	80	78	78	74	73	73	73	72	68	58	51	44	38	
10000	75	75	75	74	74	74	73	75	73	73	71	70	69	69	68	64	55	48	41	35	
OVERALL	100	102	102	101	103	103	103	106	109	110	108	113	111	104	103	99	91	84	77	71	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PND3)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
C-130H,N,P AIRCRAFT																			
ENG. 156-A-15																			
GROUND RUNUP																			
OPERATIONS:																			
C-130H,N,P																			
TAKEOFF POWER																			
SINGLE ENGINE																			
16000 IN-LBS																			
METEOROLOGICAL DATA:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -5.1 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-521-001																			
RUN 04																			
AIRCRAFT CODE 521																			
OPERATION CODE 04033																			
PROFILE VERSION A																			
14 DEC 76																			
PAGE 04																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	113.8	115.2	114.9	114.2	114.3	114.3	115.4	114.7	115.0	112.6	113.3	110.4	109.1	105.4	96.7	89.8	82.9	75.9	
250	111.5	112.9	112.7	112.0	112.1	112.0	113.2	112.4	112.8	110.4	111.2	108.2	106.9	103.7	94.5	87.5	80.6	73.6	
315	109.2	110.6	110.4	109.7	109.8	109.7	110.9	110.2	110.7	108.3	109.1	106.0	104.7	101.4	92.2	85.2	78.2	71.2	
400	106.8	108.2	108.0	107.3	107.4	107.4	108.5	107.8	108.4	106.0	106.8	103.6	102.3	99.1	89.8	82.7	75.7	68.7	
500	104.3	105.7	105.5	104.8	104.9	104.9	106.0	105.3	105.8	103.4	104.2	101.0	99.7	96.5	87.2	80.2	73.2	66.2	
540	101.6	103.1	102.8	102.1	102.4	102.3	103.5	102.8	103.4	101.0	101.7	98.5	97.2	94.0	84.6	77.6	70.5	63.4	
560	98.8	100.3	100.1	99.4	99.7	99.6	100.9	100.2	100.8	98.4	99.1	95.9	94.6	91.4	81.8	74.8	67.8	60.5	
1000	95.8	97.3	97.3	96.5	96.9	96.8	98.2	97.5	98.1	95.7	96.4	93.2	91.9	88.7	79.0	71.9	64.8	57.3	
1250	92.7	94.0	94.2	93.5	93.9	93.8	95.2	94.5	95.1	92.7	93.4	90.2	88.9	85.7	76.0	68.9	61.7	53.9	
1500	89.3	90.5	90.9	90.3	90.6	90.6	92.0	91.3	91.9	89.5	90.2	87.0	85.7	82.5	72.7	65.6	58.3	50.6	
2000	85.7	86.9	87.4	86.8	87.1	87.0	88.4	87.7	88.3	85.9	86.6	83.4	82.1	78.9	69.3	62.1	54.5	45.9	
2500	81.9	83.0	83.5	82.9	83.2	83.2	84.6	83.9	84.5	82.1	82.8	79.6	78.3	75.1	65.3	58.1	49.9	40.4	
3150	77.6	78.8	79.2	78.6	79.0	79.0	80.4	79.7	80.3	77.9	78.6	75.4	74.1	70.9	61.2	53.7	44.9	36.8	
4000	72.8	74.2	74.4	73.8	74.3	74.4	75.8	75.1	75.7	73.3	74.0	70.8	69.5	66.3	56.5	48.3	39.5	29.3	
5000	67.8	69.1	69.4	68.8	69.3	69.4	70.8	70.1	70.7	68.3	69.0	65.8	64.5	61.3	51.5	42.4	33.8	23.5	
6300	62.3	63.8	63.9	63.3	63.8	63.9	65.3	64.6	65.2	62.8	63.5	60.3	59.0	55.8	45.9	36.5	25.4	14.5	
8000	57.7	59.2	59.2	58.6	59.0	59.1	60.5	59.8	60.4	58.0	58.7	55.5	54.2	51.0	41.2	31.8	20.5	9.7	
10000	52.8	54.5	54.6	54.1	54.4	54.5	55.9	55.2	55.8	53.4	54.1	50.9	49.6	46.4	36.6	27.2	16.2		
12500	47.5	49.3	49.4	48.9	49.2	49.3	50.7	50.0	50.6	48.2	48.9	45.7	44.4	41.2	31.4	21.5	7.1		
16000	41.4	43.3	43.0	42.7	42.8	42.9	44.3	43.6	44.2	41.8	42.5	39.3	38.0	34.8	25.0	9.9			
20000	33.8	36.1	36.0	35.3	35.5	35.6	37.0	36.3	36.9	34.5	35.2	32.0	30.7	27.5	17.2				
25000	24.2	27.9	27.9	27.3	27.5	27.6	29.0	28.3	28.9	26.5	27.2	24.0	22.7	19.5	7.0				

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS																			
(OPERATIONS)																			
(C-130H,N,P)																			
(TAKEOFF POWER)																			
(SINGLE ENGINE)																			
(16000 IN-LBS)																			
GROUND RUNUP																			
METEOROLOGICAL:																			
TEMP = 59 F																			
BAR PRESS = 29.12 IN HG																			
REL HUMID = 73 %																			
DELTA N = -5.1 09																			
AIRCRAFT CODE 521																			
OPERATION CODE 0433																			
PROFILE VERSION A																			
14 DEC 76																			
PAGE E4																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	114.3	115.9	115.6	114.9	114.8	115.2	117.0	110.7	117.4	114.8	116.6	114.3	111.5	109.3	105.9	96.7	89.8	82.9	75.9
250	112.1	113.6	113.3	112.6	112.6	113.0	114.7	114.5	115.3	112.7	114.5	112.2	109.3	107.7	103.7	94.5	87.5	80.6	73.6
315	109.8	111.3	111.0	110.3	110.3	110.7	112.4	112.2	113.1	110.5	112.3	110.0	107.1	105.5	101.4	92.2	85.2	78.2	71.2
400	107.4	108.9	108.6	108.0	107.9	108.3	110.1	109.9	110.9	108.3	110.1	107.8	104.9	103.3	99.1	89.8	82.7	75.7	68.7
500	104.8	106.4	106.1	105.5	105.4	105.8	107.6	107.5	108.6	106.0	107.9	105.6	102.6	101.0	96.7	87.2	80.2	73.2	66.2
630	102.2	103.8	103.5	102.8	102.9	103.2	105.1	105.2	106.2	103.7	105.6	103.3	100.2	98.6	94.2	84.6	77.6	70.6	63.4
800	99.4	101.0	100.7	100.1	100.3	100.5	102.5	102.7	103.9	101.2	103.3	100.9	97.8	96.1	91.7	81.8	74.8	67.8	60.5
1000	96.4	98.0	97.7	97.2	97.5	97.7	99.7	99.7	100.9	98.7	100.9	98.5	95.2	93.6	89.0	79.0	71.9	64.8	57.3
1250	93.2	94.4	94.2	94.2	94.5	94.7	96.8	97.4	98.6	95.8	98.3	95.9	92.4	90.8	86.3	76.0	68.9	61.7	53.9
1500	89.8	91.3	91.6	91.9	91.2	91.5	93.6	94.1	95.3	92.7	95.0	92.6	89.0	87.2	82.4	72.7	65.6	58.3	50.3
2000	86.3	87.6	87.4	87.4	87.7	88.0	90.2	90.5	91.7	89.0	91.4	89.0	85.0	83.2	79.1	69.3	62.1	54.5	45.9
2500	82.4	83.7	83.6	83.6	83.8	84.1	86.4	86.2	87.4	84.4	87.4	84.9	80.7	79.1	75.1	65.3	58.1	49.8	40.4
3150	78.1	79.5	79.9	79.3	79.5	80.0	82.3	82.0	83.2	79.4	82.5	79.8	75.5	74.9	70.8	61.2	53.7	44.9	36.0
4000	73.3	74.7	74.9	74.8	74.8	75.1	77.4	77.0	78.5	73.8	76.3	73.8	71.7	70.1	66.2	56.5	48.3	39.5	29.3
5000	68.1	69.6	69.7	69.4	69.7	70.0	72.1	71.6	72.9	68.3	70.2	67.8	66.5	64.9	61.2	51.2	42.4	33.8	19.5
6300	62.5	64.1	64.1	63.8	64.0	64.3	66.3	65.7	66.9	62.5	63.9	61.9	61.0	59.5	55.9	45.0	36.5	25.4	9.7
8000	57.9	59.4	59.4	59.0	58.9	59.7	61.6	60.1	59.3	57.9	59.8	57.6	56.6	55.1	51.3	39.5	30.1	16.2	
10000	52.8	54.5	54.6	54.1	54.0	54.8	55.0	55.1	54.2	52.8	55.3	53.1	51.7	50.3	46.0	33.5	21.5	7.1	
12500	47.5	49.3	49.4	48.9	48.8	49.7	49.7	49.6	49.0	47.7	51.0	48.6	46.3	44.7	40.3	25.4	9.9		
15000	41.4	43.3	43.0	42.7	42.4	43.5	43.6	43.9	43.4	41.7	46.5	43.1	40.3	38.6	33.1	16.2			
20000	33.8	35.1	36.0	35.9	35.5	36.4	36.1	36.3	37.2	34.8	40.6	36.5	32.9	31.1	24.9	7.8			
25000	24.2	27.9	27.9	27.3	25.9	27.6	27.0	27.9	27.4	25.3	34.2	29.5	23.2	20.5	11.7				
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

 (UFG) 7E27 CMOS 772210 02JMG1-P-1 1236V1

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

TABLE 1 A-MEASURED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(OPERATIONS)																			
C-130A, MFP AIRCRAFT																			
(C-130A, MFP)																			
ENG. 1500-15																			
(TAKE-OFF POWER)																			
(SINGLE ENGINE)																			
(GROUND RUNUP)																			
(16000 IN-LBS)																			
IDENTIFICATIONS:																			
) OMEGA 8.2																			
) TEST 76-521-031																			
) RUN 14																			
) AIRCRAFT CODE 521																			
) OPERATION CODE 8438																			
) PROFILE VERSION A																			
) 14 DEC 76																			
) PAGE F6																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	13	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	93.4	103.6	100.7	103.1	103.2	103.2	103.3	99.0	97.1	97.2	96.3	95.9	94.4	91.7	82.7	76.0	69.3	62.7	
250	97.2	93.4	98.0	98.0	98.0	98.0	99.1	97.3	94.3	95.1	94.2	93.7	92.2	89.6	83.6	73.5	67.2	63.6	
315	94.9	95.2	96.2	95.0	95.3	95.4	95.9	95.1	92.8	93.0	92.1	91.6	90.1	87.5	78.4	71.7	65.1	59.4	
400	92.7	93.9	93.0	93.5	93.6	93.6	94.7	93.7	92.3	92.3	91.0	89.3	87.3	85.3	76.2	69.6	62.9	56.2	
500	92.3	93.6	91.6	91.2	91.2	91.3	92.3	91.4	89.6	88.3	86.6	87.7	85.7	83.0	74.0	67.3	60.7	54.3	
530	87.9	83.2	83.2	80.0	80.0	80.9	80.4	83.0	80.0	80.0	85.0	84.8	83.3	80.4	71.7	65.1	58.4	51.7	
550	85.4	85.7	85.7	86.4	86.3	86.5	87.5	85.6	85.8	85.8	83.0	83.1	82.5	78.4	69.4	62.7	56.1	49.4	
1000	82.0	80.2	80.2	83.9	83.0	80.3	80.9	80.1	83.2	80.1	81.7	80.7	80.0	78.6	67.0	60.3	53.7	47.0	
1250	83.1	81.5	81.2	81.1	81.3	80.0	82.3	81.4	80.6	78.4	79.2	79.2	77.4	76.0	64.5	57.8	51.1	44.5	
1500	77.3	78.7	78.6	78.3	78.0	78.0	79.2	78.7	77.7	75.6	76.3	75.5	74.7	73.2	70.8	61.8	55.2	48.5	
2000	74.4	73.8	75.4	75.4	75.0	75.0	75.7	75.5	74.7	72.7	73.4	72.0	71.9	70.4	68.0	59.1	52.4	45.8	
2500	71.3	72.7	72.5	72.2	72.2	72.3	73.3	72.6	71.5	69.5	70.2	69.5	68.3	67.3	64.9	56.1	49.4	42.8	
3150	67.9	69.3	69.0	68.7	68.1	68.1	69.3	68.1	68.0	66.1	66.1	66.1	65.4	63.9	61.0	52.9	46.2	39.5	
4000	64.2	65.5	65.1	64.9	64.9	65.3	66.1	65.3	64.2	62.3	62.8	62.2	61.7	60.1	57.0	49.3	42.7	36.0	
5000	60.0	61.4	60.8	60.6	60.6	61.4	61.9	61.1	59.3	58.1	58.7	58.0	57.5	56.0	53.8	45.3	38.7	32.0	
6300	55.0	57.0	56.3	56.1	56.1	56.5	57.3	56.6	55.4	53.7	54.3	53.5	53.1	51.5	49.4	41.6	34.4	27.7	
8000	51.4	52.4	52.1	51.9	51.0	52.3	52.8	52.3	51.2	49.6	49.8	49.1	47.6	45.4	37.0	30.3	23.6	17.0	
10000	46.9	48.4	47.7	47.5	47.3	47.9	48.1	47.7	46.8	45.4	45.7	44.9	43.5	41.3	32.6	25.9	19.2	12.5	
12500	42.2	43.6	43.4	42.8	42.6	43.2	43.1	42.9	42.2	40.3	40.5	39.3	38.3	36.4	27.8	21.1	14.4	7.8	
15000	37.1	38.0	37.7	37.5	37.3	37.9	37.9	37.7	36.3	35.1	35.5	34.2	33.4	31.4	22.6	15.9	9.3	2.6	
20000	31.4	32.9	32.4	32.1	32.3	32.6	32.9	33.2	31.7	30.2	30.7	29.2	28.2	25.2	17.2	10.5	3.9		
25000	25.3	26.9	26.9	26.6	26.4	27.2	27.1	26.1	23.1	21.4	20.8	19.5	18.2	15.4	7.7	1.1			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(C-130H, N/P AIRCRAFT)																
(ENG. 156-A-15)																
(GROUND RUNUP)																
OPERATIONS:																
(C-130H, N/P)																
(TAKEOFF POWER)																
(SINGLE ENGINE)																
(16000 IN-LBS)																
METEOROLGY:																
(TEMP = 59 F)																
(BAR PRESS = 29.92 IN HG)																
(REL HUMID = 73 %)																
(DELTA M = -5.1 08)																
IDENTIFICATION:																
(OMEGA 8.2)																
(TEST 76-521-001)																
AIRCRAFT CODE 521																
OPERATION CODE 04J30																
PROFILE VERSION A																
14 DEC 76																
PAGE 64																
DISTANCE (FEET)																
ANGLE (DEGREES)																
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																
200	99.9	101.3	101.3	100.8	100.7	101.1	102.9	102.3	101.9	99.3	98.8	97.3	97.0	95.2	91.7	82.7
250	97.7	99.2	99.1	98.7	98.5	98.9	100.7	100.2	99.7	97.2	96.7	95.1	94.9	93.0	89.6	80.6
315	95.5	96.9	96.9	96.5	96.3	96.7	98.5	98.0	97.5	95.0	94.6	93.0	92.7	90.9	87.5	78.4
400	93.2	94.7	94.6	94.2	94.0	94.5	96.2	95.7	95.3	92.8	92.4	90.8	90.5	88.7	85.3	76.2
500	90.9	92.3	92.2	91.9	91.7	92.2	93.9	93.5	93.0	90.6	90.2	88.6	88.2	86.5	83.0	74.0
530	89.5	90.9	90.8	90.5	90.3	90.8	92.5	92.1	91.6	89.2	88.8	87.2	86.9	85.1	81.7	72.7
600	87.5	88.9	88.8	88.5	88.3	88.8	90.5	90.1	89.6	87.2	86.8	85.2	84.9	83.1	79.7	70.7
1300	83.4	84.9	84.8	84.5	84.3	84.8	86.5	86.1	85.7	83.3	82.9	81.3	81.0	79.2	75.8	66.8
1250	80.7	82.2	82.1	81.8	81.6	82.1	83.8	83.4	83.0	80.6	80.2	78.6	78.3	76.5	73.1	64.1
1600	77.9	79.4	79.3	79.0	78.8	79.3	81.0	80.6	80.2	77.8	77.4	75.8	75.5	73.7	70.3	61.3
2000	75.8	77.3	77.2	76.9	76.7	77.2	78.9	78.5	78.1	75.7	75.3	73.7	73.4	71.6	68.2	59.2
2500	71.9	73.4	73.3	73.0	72.8	73.3	75.0	74.6	74.2	71.8	71.4	69.8	69.5	67.7	64.3	55.3
3150	68.5	70.0	69.9	69.6	69.4	69.9	71.6	71.2	70.8	68.4	68.0	66.4	66.1	64.3	60.9	51.9
4000	64.6	66.1	66.0	65.7	65.5	66.0	67.7	67.3	66.9	64.5	64.1	62.5	62.2	60.4	57.0	48.0
5300	60.3	61.8	61.7	61.4	61.2	61.7	63.4	63.0	62.6	60.2	59.8	58.2	57.9	56.1	52.7	43.7
6300	57.7	59.2	59.1	58.8	58.6	59.1	60.8	60.4	60.0	57.6	57.2	55.6	55.3	53.5	50.1	41.1
8000	51.5	53.0	52.9	52.6	52.4	52.9	54.6	54.2	53.8	51.4	51.0	49.4	49.1	47.3	43.9	34.9
13000	46.9	48.4	48.3	48.0	47.8	48.3	50.0	49.6	49.2	46.8	46.4	44.8	44.5	42.7	39.3	30.3
12500	44.2	45.7	45.6	45.3	45.1	45.6	47.3	46.9	46.5	44.1	43.7	42.1	41.8	39.9	36.5	27.5
16000	37.6	39.1	39.0	38.7	38.5	39.0	40.7	40.3	39.9	37.5	37.1	35.5	35.2	33.4	30.0	21.0
20000	34.4	35.9	35.8	35.5	35.3	35.8	37.5	37.1	36.7	34.3	33.9	32.3	32.0	30.2	26.8	17.8
25000	25.3	26.8	26.7	26.4	26.2	26.7	28.4	28.0	27.6	25.2	24.8	23.2	22.9	21.1	17.7	8.7

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

C-130H, P AIRCRAFT

ENG. 155-A-15

GRUNG RUNUP

OPERATION:

C-130H, P

TAK-OFF POWER

SINGLE ENGINE

1600 IN-LBS

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 79 %

DELTA M = -5.1 DB

IDENTIFICATION:

OMEGA 8.2

TEST 76-521-031

RUN 04

AIRCRAFT CODE 521

OPERATION CODE 94333

PROFILE VERSION A

14 DEC 76

PAGE J4

ANGLE DEGREES	NOISE LEVEL IN PHD3 DB										P
	25	30	40	50	60	70	80	90	100	110	120
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

NOISE PRODUCED ON THE GROUND BY

C-131 **AIRCRAFT**

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 025
PROFILE VERSION: A
COMPUTED PROGRAM OMEGA 6.6

POWER SETS

35A

TAKIOFF 2800 RPM, 60 IN HG	506-514
CRUISE 2000 RPM, 32 IN HG	515-523
APPROACH 2400 RPM, 27 IN HG	524-532

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNL1
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
ALT-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNL1, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNL1, SEL, SELT, EPNL)

31 DEC 75

AEROPT-PA
ERIGHT-PA
VERSON AIR
RESERCE
BASE.
TORIO

[illegible]

	30	40	50	60	70	80	90	100	
	MEAN VALUE OF NORMALIZED 1/3 DB SPL IN DB								
50	MEAN
63	SD
80	76.4 8.6
100	79.9 5.7
125	69.8 5.4
160	77.4 1.9
200	94.6 5.4
250	90.4 3.0
315	85.4 3.9
400	91.3 5.3
500	86.2 2.4
630	83.4 1.8
800	84.1 2.3
1000	81.5 2.0
1250	81.1 1.9
1600	78.6 2.6
2000	77.7 2.9
2500	77.6 3.4
3150	78.3 3.2
4000	76.7 2.6
5000	74.9 2.7
6300	71.5 3.1
8000	65.9 2.5
10000	60.0 2.2
	53.8 3.8
	46.4 4.5

FREQUENCY IN HZ

C-131

TAKEOFF POWER

2800 RPM

60 IN HG

AIRSPEED = 140 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

PNLT = 105.9 PNOB
PNL = 104.1 PNOB
ALT = 92.8 DBA
AL = 91.0 DBA

NO. OF RECORDS = 8

IDENT: 6.6-028-103-311275

	30	40	50	60	70	80	90	100	
	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB								
50	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	MEAN
63	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	76.4
80	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	8.6
100	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	79.9
125	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	5.7
160	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	69.8
200	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	5.4
250	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	1.9
315	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	5.4
400	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	3.0
500	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	3.9
630	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	5.3
800	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.4
1000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	1.8
1250	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.3
1600	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.0
2000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	1.9
2500	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.6
3150	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.9
4000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	3.4
5000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	3.2
6300	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.6
8000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.7
10000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	3.1
	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.5
	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	2.2
	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	3.8
	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	4.5
	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	

C-131 TAKEOFF POWER 2800 RPM 60 IN HG
 AIRSPEED = 140 KNOTS TEMP = 59 F PNLT = 105.9 PND8
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 104.1 PND8
 NO. OF RECORDS = 8 IDENT: 6.6-028-103-311275 ALT = 92.8 DBA
 AL = 91.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
AIR-TO-GROUND PROPAGATION																								
AIRCRAFT:																								
C-131																								
OMEGA 6.6																								
A/C CODE: 028																								
OPS CODE: 103																								
PROFILE VER: A																								
31 DEC 75																								
PAGE H1																								
METEOROLOGY:																								
TEMP = 59 F																								
REL HUMID = 70 %																								
DELTA N = 0.0 DB																								
AIRSPEED = 140 KNOTS																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	90	94	84	92	109	105	100	106	101	98	99	96	96	94	93	94	95	94	93	92	87	84	83	82
250	88	92	82	90	107	103	98	104	99	96	97	94	94	92	91	91	93	92	91	89	85	82	80	79
315	86	90	80	88	105	101	96	102	97	94	95	92	92	90	89	89	90	89	89	87	82	79	76	75
400	84	88	78	86	103	99	94	99	94	92	93	90	90	87	87	87	88	87	86	84	79	76	73	71
500	82	86	76	83	101	97	92	97	92	90	91	88	88	85	85	85	86	85	84	81	76	72	69	66
630	80	84	74	81	99	94	89	95	90	88	88	86	86	83	82	82	83	82	81	78	73	69	65	60
800	78	82	72	79	97	92	87	93	88	86	86	84	83	81	80	80	91	80	78	75	70	65	60	54
1000	76	80	70	77	95	90	85	91	86	83	84	82	81	79	78	78	78	77	75	72	66	60	54	46
1250	74	78	68	75	93	88	83	89	84	81	82	79	79	76	75	75	76	74	71	68	62	55	47	37
1600	72	76	66	73	91	86	81	87	82	79	80	77	76	74	73	72	73	70	68	63	57	49	39	27
2000	70	74	64	71	88	84	79	85	80	77	77	75	74	71	70	69	69	67	63	58	51	41	29	13
2500	68	72	62	69	86	82	77	83	78	75	75	72	71	68	67	66	66	63	59	52	44	33	18	4
3150	66	70	60	67	84	80	75	80	75	72	73	70	69	65	64	62	62	58	53	45	36	22	10	
4000	64	68	57	65	82	78	73	78	73	70	67	66	62	60	58	57	57	53	47	37	27	16		
5000	62	66	55	63	80	75	70	76	70	67	67	64	62	59	56	54	52	47	39	27	16			
6300	60	63	53	61	78	73	68	73	68	64	64	61	59	55	52	49	46	39	30	15	2			
8000	58	61	51	58	75	71	65	71	65	61	61	57	55	50	47	43	39	31	19	1				
10000	56	59	49	56	73	68	63	68	62	58	58	53	51	45	41	36	31	21	6					
12500	54	57	47	54	71	66	60	65	59	55	54	49	46	40	34	28	21	8						
16000	51	55	44	51	68	63	57	62	56	51	49	44	40	33	26	18	9							
20000	49	52	42	49	65	60	54	58	52	46	44	38	33	25	17	6								
25000	47	50	39	46	62	57	50	55	47	41	39	31	25	15	5									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	TAKEOFF POWER	60 IN HG	TEMP	REL HUMID	DELTA M	0.0 DB	IDENTIFICATION:	
C-131	2800 RPM			59 F	70 %			OMEGA 6.6	
	AIR SPEED = 140 KNOTS							A/C CODE: 028	
								OPS CODE: 103	
								PROFILE VER: A	
								31 DEC 75	
								PAGE 11	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	106.4	108.2	120.1	121.9	107.9	109.5	113.0		
250	104.3	106.1	117.9	119.7	106.7	108.3	111.8		
315	102.2	103.9	115.7	117.5	105.6	107.2	110.6		
400	100.0	101.8	113.5	115.3	104.4	106.0	109.4		
500	97.8	99.6	111.2	113.0	103.3	104.9	108.2		
630	95.6	97.4	108.9	110.7	102.0	103.6	106.8		
800	93.3	95.1	106.6	108.3	100.8	102.4	105.5		
1000	91.0	92.8	104.1	105.9	99.4	101.0	104.1		
1250	88.8	90.4	101.6	103.4	98.1	99.7	102.6		
1600	86.2	88.0	99.1	100.9	96.7	98.3	101.0		
2000	83.8	85.5	96.5	98.3	95.2	96.8	99.4		
2500	81.2	83.0	93.8	95.6	93.7	95.3	97.7		
3150	78.7	80.5	91.0	92.8	92.1	93.7	96.0		
4000	76.1	77.5	88.2	89.6	90.5	91.8	93.8		
5000	73.4	74.4	85.3	86.4	88.8	89.8	91.6		
6300	70.6	71.3	82.2	82.9	87.0	87.7	89.1		
8000	67.7	68.1	78.9	79.3	85.2	85.5	86.6		
10000	64.7	64.7	75.6	75.6	83.2	83.2	84.0		
12500	61.6	61.6	72.1	72.1	81.1	81.1	81.4		
16000	58.4	58.4	68.4	68.4	78.3	78.8	78.8		
20000	54.9	54.9	64.6	64.6	76.4	76.4	75.9		
25000	51.3	51.3	60.4	60.4	73.7	73.7	72.8		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	50	60	70	80	90	100	110	120	130
200	(((((((((
250	(((((((((
315	(((((((((
400	(((((((((
500	(((((((((
S 630	(((((((((
L 800	(((((((((
N 1000	(((((((((
D 1250	(((((((((
I 1600	(((((((((
T 2000	(((((((((
N 2500	(((((((((
E 3150	(((((((((
I 4000	(((((((((
F 5000	(((((((((
E 6300	(((((((((
T 8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((

C-131 TAKEOFF POWER

	2800 RPM	60 IN HG			
250	2800 RPM	60 IN HG			ST . E
315	TEMP = 59 F	REL HUMID = 70 %			ST . E
400	DELTA N = 0.0 DB				ST E.
500	NO. OF RECORDS: 8				
	IDENT: 6.6-028-103-311275-A				
S 630					S.T. E
L 800					ST E
A 1000					ST E
N 1250					ST E
D 1600					ST E
I 2000					ST E
S 2500					ST E
T 3150					ST E
A 4000					ST E
N 5000					ST E
C 6300					ST E
E 8000					ST E
I 10000					ST E
N 12500					ST E
S 16000					ST E
T 20000					ST E
25000					ST E

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																										
C-131																										
OPERATIONS:																										
TAKEOFF POWER																										
2800 RPM																										
60 IN HG																										
REL HUMID = 70 %																										
AIRSPEED = 140 KNOTS																										
DELTA N = 0.0 DB																										
METEOROLOGY:																										
TEMP																										
= 59 F																										
PROFILE VER: A																										
31 DEC 75																										
PAGE L1																										
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	65	89	79	87	104	100	95	101	96	93	94	91	91	89	68	89	90	89	88	87	82	79	78	77		
250	83	87	77	85	102	98	93	99	94	91	92	89	89	87	86	86	88	87	86	84	80	77	75	74		
315	81	85	75	83	100	96	91	97	92	89	90	87	87	85	84	84	85	84	84	82	77	74	71	70		
400	79	83	73	81	98	93	88	94	89	87	88	85	85	82	82	82	83	82	81	79	74	71	68	66		
500	77	81	71	78	96	91	86	92	87	85	86	83	83	80	80	80	81	80	79	76	71	67	64	61		
630	75	79	69	76	93	88	83	90	85	83	83	81	81	78	77	77	78	77	76	73	68	64	60	55		
800	73	77	67	74	90	86	81	87	83	81	81	79	78	76	75	75	76	75	73	70	65	60	55	49		
1000	71	75	65	71	87	83	78	84	81	78	79	77	76	74	73	73	73	72	70	67	61	55	49	41		
1250	69	73	62	68	84	80	74	81	78	76	77	74	74	71	70	70	71	69	66	63	57	50	42	32		
1600	67	70	58	65	81	76	71	77	75	74	75	72	71	69	63	67	68	65	63	58	52	44	34	22		
2000	64	66	55	61	77	72	67	73	71	72	72	70	69	66	65	64	64	62	58	53	46	36	24	8		
2500	61	62	51	57	73	68	63	69	67	68	70	67	66	63	62	61	61	58	54	47	39	28	13			
3150	57	58	46	52	68	63	53	64	63	64	67	65	64	60	59	57	57	53	48	40	31	17				
4000	52	53	41	46	62	57	52	58	58	59	63	61	61	57	55	53	52	48	42	32	22					
5000	47	48	36	41	57	52	47	53	52	54	53	57	57	54	51	49	47	42	34	22	11					
6300	42	43	31	37	53	48	42	48	46	48	54	53	53	50	47	44	41	34	25	10						
8000	40	41	29	34	50	45	40	46	43	45	51	49	49	45	42	38	34	26	14							
10000	38	39	27	32	48	43	37	43	40	42	48	45	45	40	36	31	26	16	1							
12500	36	37	25	30	46	40	35	40	37	39	44	41	40	35	29	23	16	3								
16000	33	35	22	27	43	37	32	37	34	35	39	36	34	28	21	13	4									
20000	31	32	20	25	40	35	28	33	30	30	34	30	27	20	12	1										
25000	29	30	17	22	37	31	25	30	25	25	29	23	19	10	0											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:	OPERATION:	METEOROLOGY:							OMEGA 6.6		
C-131	TAKEOFF POWER	TEMP	= 59 F						A/C CODE: 128		
	2800 RPM	REL HUMID = 70 %							OPS CODE: 103		
	AIRSPEED = 140 KNOTS	DELTA N = 3.0 DB							PROFILE VER: A		
									31 DEC 75		
									PAGE M1		
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PWL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	101.4	103.1	115.1	116.8	102.9	104.4	108.0				
250	99.3	101.0	112.9	114.6	101.7	103.3	106.8				
312	97.2	98.9	110.6	112.4	100.6	102.2	105.5				
400	95.0	96.7	108.4	110.2	99.4	101.0	104.3				
500	92.7	94.5	106.1	107.9	98.2	99.8	103.0				
630	90.4	92.1	103.5	105.3	96.8	98.4	101.4				
800	88.0	89.7	100.8	102.5	95.4	97.0	99.7				
1000	85.5	87.2	97.9	99.7	93.9	95.5	97.2				
1250	82.8	84.5	94.8	96.6	92.3	93.8	95.7				
1600	80.0	81.8	91.5	93.3	90.5	92.0	93.4				
2000	77.2	78.9	88.1	89.9	88.6	90.2	91.0				
2500	74.0	75.2	84.6	86.3	86.5	88.0	88.5				
3150	70.6	72.3	80.5	82.2	84.0	85.6	85.4				
4000	66.8	68.2	75.9	77.3	81.3	82.5	81.5				
5000	62.6	63.7	71.0	72.1	78.1	79.0	77.3				
6300	58.2	58.9	66.0	66.7	74.7	75.3	72.9				
8000	54.3	54.7	61.9	62.3	71.8	72.1	69.6				
10000	50.2	50.2	57.5	57.5	68.6	68.6	65.8				
12500	45.7	45.7	52.7	52.7	65.2	65.2	62.0				
16000	40.9	40.9	47.4	47.4	61.4	61.4	57.7				
20000	35.8	35.8	41.1	41.1	57.3	57.3	52.4				
25000	30.4	30.4	34.0	34.0	52.9	52.9	46.4				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	10	20	30	40	50	60	70	80	MEAN	SD
50	75.9	11.8
63	X	62.0	4.1
80	X	.	.	62.9	3.3
100	69.0	7.9
125	X	.	75.0	5.4
160	X	79.8	2.7
200	76.6	5.0
250	X	71.7	3.8
315	X	.	70.4	3.5
400	X	72.6	2.9
500	69.8	1.8
630	X	.	69.2	2.1
800	67.7	3.1
1000	X	.	65.6	3.1
1250	X	65.0	3.7
1600	X	.	.	64.3	3.6
2000	X	.	62.7	3.1
2500	60.5	2.5
3150	X	.	.	57.6	1.6
4000	52.4	2.1
5000	X	.	.	.	47.5	2.3
6300	42.6	2.2
8000	.	.	X	.	.	.	.	.	33.1	2.0
10000	.	X	.	.	.	.	.	.	21.9	2.0
		
		

C-131 CRUISE POWER 2000 RPM 32 IN HG
 AIRSPEED = 180 KNOTS TEMP = 59 F PNLT = 90.2 PNDB
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 89.5 PNDB
 NO. OF RECORDS = 8 IDENT: 6.6-028-104-311275 ALT = 77.7 DBA
 AL = 77.0 DBA

C-131 CRUISE POWER											
2000 RPM 32 IN HG											
AIRSPEED = 180 KNOTS											
TEMP = 59 F REL HUMID = 70 %											
DELTA N = 6.0 DB											
NO. OF RECORDS: 8											
IDENT: 6.6-028-104-311275-A											
	30	40	50	60	70	80	90	100	110		
S											
L											
A											
N											
T											
D											
I											
S											
T											
A											
N											
C											
E											
I											
N											
F											
E											
E											
T											
1000											
1250											
1600											
2000											
2500											
3150											
4000											
5000											
6300											
8000											
10000											
12500											
16000											
20000											
25000											

AIR TO GROUND
P = PNL
* = PNL
+ = ALT
A = AL

200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000
((((((((((((((((((((((
C-131	2000 RPM	CRUISE POWER	32 IN HG																		
	AIRSPEED = 180 KNOTS																				
	TEMP = 59 F	REL HUMID = 70 %																			
	DELTA N = 0.0 DB																				
	NO. OF RECORDS: 8																				
	IDENT: 6.6-028-104-311275-A																				
S	630	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
L	800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N	1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
T	1250	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
O	1600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
I	2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
S	2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
T	3150	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
A	4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N	5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
C	6300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
E	8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
I	10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N	12500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
F	16000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
E	20000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
E	25000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
T		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	CRUISE POWER	32 IN HG	METEOROLOGY:	TEMP	REL HUMID	59 F	70 %	IDENTIFICATION:
C-131	2000 RPM								OMEGA 6.6
	AIR SPEED = 180 KNOTS								A/C CODE: 028
									OPS CODE: 104
									PROFILE VER: A
									31 DEC 75
									PAGE M2
SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	
200	87.1	87.7	100.2	100.8	100.8	90.1	91.2	93.7	
250	85.0	85.7	98.0	98.7	98.7	89.0	90.2	92.6	
315	82.9	83.6	95.9	96.5	96.5	87.9	89.1	91.4	
400	80.8	81.4	93.6	94.2	94.2	86.8	87.9	90.1	
500	78.6	79.2	91.1	91.8	91.8	85.6	86.7	88.7	
630	76.3	76.9	88.6	89.2	89.2	84.3	85.4	87.1	
800	73.9	74.6	85.8	86.5	86.5	83.0	84.1	85.4	
1000	71.5	72.1	83.2	83.8	83.8	81.5	82.7	83.7	
1250	69.0	69.6	80.4	81.0	81.0	80.0	81.1	81.9	
1600	66.4	67.0	77.4	78.1	78.1	78.4	79.5	80.0	
2000	63.7	64.3	74.4	75.0	75.0	76.7	77.8	77.9	
2500	60.6	61.2	70.5	71.1	71.1	74.6	75.7	75.0	
3150	57.2	57.9	66.1	66.7	66.7	72.3	73.4	71.7	
4000	53.5	54.0	61.3	61.8	61.8	69.5	70.4	67.7	
5000	49.4	49.7	56.3	56.7	56.7	66.4	67.1	63.4	
6300	44.9	45.2	51.1	51.3	51.3	63.0	63.4	58.9	
8000	41.1	41.2	46.3	46.4	46.4	60.1	60.3	54.9	
10000	36.9	36.9	40.9	40.9	40.9	56.9	56.9	50.4	
12500	32.4	32.4	34.8	34.8	34.8	53.4	53.4	45.2	
16000	27.5	27.5	26.7	26.7	26.7	49.5	49.5	38.1	
20000	22.3	22.3	16.9	16.9	16.9	45.3	45.3	29.3	
25000	16.8	16.8	7.1	7.1	7.1	40.8	40.8	20.5	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

[illegible]

	10	20	30	40	50	60	70	80	MEAN	SD
50	79.1	7.3
63	X.	65.7	6.5
80	X.	.	.	57.6	5.3
100	X.	.	68.4	6.1
125	X.	80.3	6.8
160	X.	77.6	6.9
200	X.	77.2	3.7
250	X.	74.1	4.7
315	X.	.	72.1	2.1
400	70.0	2.6
500	X.	.	69.7	1.7
630	X.	.	66.8	1.2
800	66.3	3.1
1000	X.	.	64.6	3.2
1250	53.6	3.5
1600	X.	.	62.8	3.5
2000	X.	.	.	61.6	3.6
2500	59.1	2.9
3150	X.	.	.	56.6	1.9
4000	X.	.	.	.	51.6	2.7
5000	46.7	3.1
6300	40.9	4.5
8000	31.3	4.1
10000	.	X.	.	.	.	.	.	.	20.1	3.7

F R E Q U E N C Y I N H Z

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

C-131

APPROACH POWER

2400 RPM

27 IN HG

AIRSPEED = 120 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

NO. OF RECORDS = 8

IDENT: 6.6-028-105-311275

PNLT = 90.5 PNOB
PNL = 89.2 PNOB
ALT = 77.6 OBA
AL = 76.3 OBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:			
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6			
AIRCRAFT:																									A/C CODE: 028			
C-131																									OPS CODE: 105			
																									PROFILE VER: A			
																									31 DEC 75			
																									PAGE H3			
																									DELTA N = 0.0 DB			
																									AIRSPEED = 120 KNOTS			
																									METEOROLOGY:			
																									TEMP = 59 F			
																									REL HUMID = 70 %			
																									27 IN HG			
																									2400 RPM			
																									APPROACH POWER			
																									FREQUENCY BAND NUMBER			
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
200	93	80	72	82	94	92	91	88	87	84	84	82	81	80	79	79	78	76	75	72	68	65	60	56				
250	91	78	70	80	92	90	89	86	84	82	82	80	79	78	77	77	76	74	73	69	65	62	57	53				
315	89	76	68	78	90	88	87	84	82	80	80	77	77	76	75	74	74	72	70	67	63	60	54	49				
400	87	74	66	76	88	86	85	82	80	78	78	75	75	73	73	72	71	70	68	64	60	57	51	45				
500	85	72	64	74	86	84	83	80	78	76	76	73	73	71	71	70	69	67	65	61	57	53	47	40				
630	83	70	62	72	84	82	81	78	76	74	74	71	71	69	68	68	67	65	63	58	54	50	42	34				
800	81	68	60	70	82	80	79	76	74	72	72	69	69	67	66	65	64	62	60	55	51	46	37	28				
1000	79	66	58	68	80	78	77	74	72	70	70	67	66	65	64	63	62	59	57	52	47	41	31	20				
1250	77	64	56	66	78	76	75	72	70	68	67	65	64	62	61	60	59	56	53	48	42	36	24	11				
1600	75	62	54	64	76	73	73	70	68	66	65	62	62	60	59	57	56	53	49	43	37	29	16	0				
2000	73	60	52	62	74	71	71	68	66	63	63	60	59	57	56	54	53	49	45	38	32	22	7					
2500	71	58	50	60	72	69	69	66	63	61	61	57	57	54	53	51	49	45	40	32	25	13						
3150	69	55	48	58	70	67	67	63	61	59	58	55	54	51	50	48	45	40	35	25	17	3						
4000	67	53	46	56	68	65	64	61	59	56	55	52	51	48	46	44	40	35	28	17	8							
5000	65	51	43	54	66	63	62	59	56	54	53	49	48	45	42	39	35	29	21	7								
6300	63	49	41	52	63	60	60	56	54	51	50	46	44	41	38	34	29	22	12									
8000	61	47	39	49	61	58	57	54	51	48	47	42	40	36	33	28	22	13	1									
10000	58	45	37	47	59	55	55	51	48	45	43	38	36	31	27	21	14	3										
12500	56	43	35	45	56	53	52	48	45	41	39	34	31	25	20	13	4											
16000	54	40	32	42	54	50	49	45	41	37	35	29	25	19	12	3												
20000	52	38	30	40	51	47	46	41	38	33	30	23	18	11	2													
25000	49	35	27	37	48	44	42	37	33	28	24	16	10	1														

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:						
C-131	APPROACH POWER 2400 RPM	TEMP = 59 F REL HUMID = 70 %	OMEGA 6.6 A/C CODE: 028 OPS CODE: 105 PROFILE VER: A 31 DEC 75 PAGE 13						
	AIRSPEED = 120 KNOTS	DELTA N = 0.0 DB							
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELF** (DB)	EPNL** (EPNDB)		
200	91.4	92.6	104.9	106.1	95.7	97.2	100.9		
250	89.3	90.5	102.8	104.0	94.7	96.2	99.7		
315	87.2	88.4	100.6	101.8	93.6	95.1	98.6		
400	85.1	86.3	98.4	99.6	92.5	93.9	97.4		
500	82.9	84.2	96.2	97.4	91.3	92.8	96.1		
630	80.8	82.0	93.9	95.1	90.2	91.6	94.9		
800	78.6	79.8	91.6	92.8	89.0	90.4	93.5		
1000	76.3	77.6	89.2	90.5	87.7	89.2	92.2		
1250	74.1	75.3	86.7	88.0	86.4	87.9	90.7		
1600	71.7	73.0	84.2	85.4	85.1	86.6	89.1		
2000	69.3	70.6	81.5	82.8	83.7	85.2	87.5		
2500	66.9	68.1	78.8	80.0	82.3	83.8	85.7		
3150	64.4	65.6	75.9	77.2	80.8	82.3	83.9		
4000	61.8	62.8	73.0	74.0	79.2	80.4	81.7		
5000	59.2	59.9	70.0	70.7	77.6	78.5	79.3		
6300	56.5	57.0	66.8	67.3	75.9	76.5	76.9		
8000	53.7	53.9	63.4	63.7	74.1	74.3	74.2		
10000	50.8	50.8	59.9	59.9	72.1	72.1	71.4		
12500	47.7	47.7	56.2	56.2	70.1	70.1	68.7		
16000	44.5	44.5	52.3	52.3	67.9	67.9	65.7		
20000	41.2	41.2	48.2	48.2	65.5	65.5	62.7		
25000	37.6	37.6	43.3	43.3	63.0	63.0	58.7		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000
S																						
L																						
A																						
N																						
T																						
O																						
I																						
S																						
T																						
A																						
N																						
C																						
E																						
I																						
N																						
F																						
E																						
T																						
10000																						
12500																						
16000																						
20000																						
25000																						

C-131 APPROACH POWER
 2400 RPM 27 IN HG
 AIRSPEED = 120 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 8
 IDENT: 6.6-028-105-311275-A

AIR TO GROUND
 P = PNLT
 + = PNL
 + = ALT
 A = AL

NOISE LEVEL IN DB
 30 40 50 60 70 80 90 100 110

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 020	
C-131																									OPS CODE: 105	
																									PROFILE VER: A	
																									31 DEC 75	
																									PAGE 13	
FREQUENCY BAND NUMBER																									DELTA N = 0.0 DB	
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	88	75	67	77	89	87	86	83	82	79	77	77	76	75	74	74	73	71	70	67	63	60	55	51		
250	86	73	65	75	87	85	84	81	79	77	77	75	74	73	72	72	71	69	68	64	60	57	52	48		
315	84	71	63	73	85	83	82	79	77	75	75	72	72	71	70	69	69	67	65	62	58	55	49	44		
400	82	69	61	71	83	81	80	77	75	73	73	70	70	68	68	67	66	65	63	59	55	52	46	40		
500	80	67	59	69	81	78	78	75	73	71	71	68	68	66	66	65	64	62	60	56	52	48	42	35		
630	78	65	57	67	79	75	75	73	71	69	69	66	66	64	63	63	62	60	58	53	49	45	37	29		
800	76	63	55	65	76	73	72	70	69	67	67	64	64	62	61	60	59	57	55	50	46	41	32	23		
1000	74	61	53	62	73	70	69	67	67	65	65	62	61	60	59	58	57	54	52	47	42	36	26	15		
1250	72	59	50	59	70	67	66	64	64	63	62	60	59	57	56	55	54	51	48	43	37	31	19	6		
1600	70	55	46	56	67	63	63	60	61	61	60	57	57	55	54	52	51	48	44	38	32	24	11			
2000	67	52	43	52	63	59	59	56	57	58	58	55	54	52	51	49	48	44	40	33	27	17	2			
2500	63	48	39	47	58	55	55	52	53	55	55	52	52	49	48	46	44	40	35	27	20	8				
3150	59	44	34	43	54	50	51	47	49	51	52	50	49	46	45	43	40	35	30	20	12					
4000	55	38	29	37	48	44	44	41	44	46	48	46	46	43	41	39	35	30	23	12	3					
5000	50	34	24	32	43	40	39	36	38	40	44	42	42	40	37	34	30	24	16	2						
6300	45	29	19	28	39	35	34	31	32	35	40	38	38	36	33	29	24	17	7							
8000	43	27	17	25	36	32	32	29	29	32	37	34	34	31	28	23	17	8								
10000	40	25	15	23	34	30	29	26	26	29	33	30	30	26	22	16	9									
12500	36	23	13	21	31	27	26	23	23	25	29	26	25	20	15	8										
16000	30	20	10	18	29	25	23	20	19	21	25	21	19	14	7											
20000	34	18	8	16	26	22	20	16	16	17	20	15	12	6												
25000	31	15	5	13	23	18	17	12	11	12	14	9	4													

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE

GROUND-TO-GROUND PROPAGATION										IDENTIFICATION:	
AIRCRAFT:											
(OPERATIONS:) METEOROLOGY:											
(APPROACH POWER 27 IN MG) TEMP = 59 F											
(2400 RPM) REL HUMID = 70 %											
(AIRSPEED = 120 KNOTS) DELTA N = 0.0 DB											
(C-131)											
(31 DEC 75)											
(PAGE M3)											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	86.4	87.5	99.8	101.0	90.7	92.2	95.7				
250	84.3	85.5	97.7	98.9	89.7	91.1	94.6				
315	82.2	83.4	95.5	96.7	88.6	90.0	93.4				
400	80.0	81.2	93.3	94.5	87.4	88.9	92.2				
500	77.8	79.0	90.9	92.1	85.2	87.7	90.9				
630	75.5	76.7	88.3	89.5	84.9	86.4	89.3				
800	73.2	74.3	85.5	86.7	83.5	85.0	87.6				
1000	70.7	71.9	82.5	83.7	82.1	83.5	85.4				
1250	68.1	69.3	79.4	80.6	81.5	81.9	83.3				
1630	65.4	66.6	76.4	77.6	78.8	80.2	81.3				
2000	62.6	63.8	73.2	74.4	76.9	78.4	79.2				
2500	59.4	60.6	69.5	70.7	74.8	76.3	76.4				
3150	56.0	57.2	65.4	66.6	72.4	73.8	73.3				
4000	52.2	53.2	60.8	61.7	69.6	70.8	69.4				
5000	48.1	48.8	55.7	56.4	65.5	67.3	65.0				
6300	43.7	44.1	50.2	50.7	63.0	63.6	60.3				
8000	39.8	40.0	45.6	45.9	60.2	60.5	56.4				
10000	35.7	35.7	40.3	40.3	57.1	57.1	51.8				
12500	31.2	31.2	34.8	34.8	53.6	53.6	47.2				
16000	26.5	26.5	26.2	26.2	49.9	49.9	39.7				
20000	21.5	21.5	14.8	14.8	45.9	45.9	29.2				
25000	16.3	16.3	3.3	3.3	41.7	41.7	18.7				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	C-131	APPROACH POWER	27 IN HG	A+	*P
250	(	2400 RPM			A+	*P
315	(	AIR SPEED = 120 KNOTS				
400	(	TEMP = 59 F	REL HUMID = 70 %		A+	*P
500	(	DELTA N = 0.0 DB			A+	*P
630	(	NO. OF RECORDS: 8				
800	(	IDENT: 6.6-028-105-311275-A				
1000	(				A+	*P
1250	(				A+	*P
1500	(				A+	*P
1750	(				A+	*P
2000	(				A+	*P
2250	(				A+	*P
2500	(				A+	*P
2750	(				A+	*P
3000	(				A+	*P
3250	(				A+	*P
3500	(				A+	*P
3750	(				A+	*P
4000	(				A+	*P
4250	(				A+	*P
4500	(				A+	*P
4750	(				A+	*P
5000	(				A+	*P
5250	(				A+	*P
5500	(				A+	*P
5750	(				A+	*P
6000	(				A+	*P
6250	(				A+	*P
6500	(				A+	*P
6750	(				A+	*P
7000	(				A+	*P
7250	(				A+	*P
7500	(				A+	*P
7750	(				A+	*P
8000	(				A+	*P
8250	(				A+	*P
8500	(				A+	*P
8750	(				A+	*P
9000	(				A+	*P
9250	(				A+	*P
9500	(				A+	*P
9750	(				A+	*P
10000	(				A+	*P
10250	(				A+	*P
10500	(				A+	*P
10750	(				A+	*P
11000	(				A+	*P
11250	(				A+	*P
11500	(				A+	*P
11750	(				A+	*P
12000	(				A+	*P
12250	(				A+	*P
12500	(				A+	*P
12750	(				A+	*P
13000	(				A+	*P
13250	(				A+	*P
13500	(				A+	*P
13750	(				A+	*P
14000	(				A+	*P
14250	(				A+	*P
14500	(				A+	*P
14750	(				A+	*P
15000	(				A+	*P
15250	(				A+	*P
15500	(				A+	*P
15750	(				A+	*P
16000	(				A+	*P
16250	(				A+	*P
16500	(				A+	*P
16750	(				A+	*P
17000	(				A+	*P
17250	(				A+	*P
17500	(				A+	*P
17750	(				A+	*P
18000	(				A+	*P
18250	(				A+	*P
18500	(				A+	*P
18750	(				A+	*P
19000	(				A+	*P
19250	(				A+	*P
19500	(				A+	*P
19750	(				A+	*P
20000	(				A+	*P
20250	(				A+	*P
20500	(				A+	*P
20750	(				A+	*P
21000	(				A+	*P
21250	(				A+	*P
21500	(				A+	*P
21750	(				A+	*P
22000	(				A+	*P
22250	(				A+	*P
22500	(				A+	*P
22750	(				A+	*P
23000	(				A+	*P
23250	(				A+	*P
23500	(				A+	*P
23750	(				A+	*P
24000	(				A+	*P
24250	(				A+	*P
24500	(				A+	*P
24750	(				A+	*P
25000	(				A+	*P

C-131 APPROACH POWER
 2400 RPM 27 IN HG
 AIRSPEED = 120 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 8
 IDENT: 6.6-028-105-311275-A

	20	30	40	50	60	70	80	90	100
S
L
A
N
T
D
I
S
T
A
N
C
E
I
N
F
E
E
T
8000
10000
12500
16000
20000
25000

GROUND TO GROUND
 E = EPNL
 T = SELT
 S = SEL

[illegible]

NOISE PRODUCED ON THE GROUND BY

C-1319 (T-298) AIRCRAFT

JURING GROUND RUN-JP OPERATIONS

TEST 74-004-034
AIRCRAFT CODE: 028
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8

COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

IDLE 800 RPM, 13 IN MAP	534-539
GROUND POWER CHECK 2050 RPM, 27.5 IN MAP	540-545
TAKEOFF 2800 RPM, 62 IN MAP	546-551
TAXI 1000 RPM, 24 IN MAP	552-557

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

1. TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

19 FEB 76

AEROSPACE MEDICAL RESEARCH
LABORATORY, OHIO

[illegible]

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:)										IDENTIFICATION:)									
C-131B (T-29D) AIRCRAFT (IDLE, 800 RPM )										) OMEGA 8.2									
ENG. R-2800-103M (SINGLE ENGINE )										) TEST 74-004-034									
GROUND RUNUP ( )										) RUN 01									
( )										) AIRCRAFT CODE 028									
( )										) OPERATION CODE 02013									
( )										) PROFILE VERSION A									
( )										) 19 FEB 76									
( )										) PAGE 01									
DISTANCE																			
ANGLE (DEGREES)																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	85.5	84.4	84.5	83.1	83.0	83.3	85.1	84.6	82.2	82.0	83.7	84.0	84.8	85.3	86.1	82.7	79.9	81.1	81.9
250	83.2	82.2	82.3	80.9	80.7	81.0	82.8	82.2	79.8	79.7	81.3	81.7	82.5	82.9	83.8	80.4	77.6	78.8	79.7
315	80.9	79.9	80.1	78.6	78.4	78.7	80.4	79.9	77.4	77.4	78.9	79.3	80.2	80.7	81.5	78.1	75.2	76.4	77.4
400	73.5	77.6	77.8	76.3	76.0	76.3	77.9	77.4	75.0	75.1	76.5	76.9	77.8	78.4	79.1	75.7	72.8	74.0	75.1
500	76.1	75.2	75.4	74.0	73.5	73.5	75.2	75.0	72.5	72.6	74.0	74.4	75.3	76.0	76.6	73.2	70.3	71.5	72.7
630	73.6	72.8	73.0	71.5	71.8	71.1	72.9	72.4	70.0	70.0	71.5	71.9	72.8	73.5	74.1	70.4	67.8	68.8	70.3
800	71.1	70.2	70.4	69.0	68.2	68.3	70.3	69.8	67.3	67.3	69.8	69.2	70.1	71.0	71.4	67.6	65.2	65.9	67.7
1000	68.4	67.5	67.7	66.3	65.4	65.5	67.5	67.0	64.2	64.4	66.1	66.5	67.2	68.3	68.7	64.9	62.4	63.0	65.1
1250	65.2	64.4	64.6	63.1	62.3	62.3	64.0	63.5	61.0	61.2	62.6	63.1	64.1	65.4	65.7	61.7	59.4	59.8	62.1
1500	61.8	61.9	61.1	59.8	58.8	58.9	60.1	59.5	57.1	57.6	58.6	59.2	60.7	62.3	62.7	58.4	55.9	56.3	58.7
2000	58.0	57.3	57.3	56.3	54.9	54.9	55.7	55.1	52.5	53.4	54.2	55.4	57.3	58.8	59.1	54.7	52.2	52.4	55.3
2500	53.5	52.9	52.8	51.8	50.1	50.1	50.3	49.8	47.4	48.7	48.6	50.6	52.7	54.5	54.8	50.1	47.4	47.5	50.7
3150	48.2	47.5	47.3	46.4	44.7	44.6	43.0	43.0	41.9	43.6	42.7	45.3	47.4	49.2	49.0	44.8	41.7	41.9	45.1
4000	42.6	41.4	41.2	40.0	37.8	37.7	36.4	35.4	34.2	36.8	35.8	38.6	41.2	43.2	44.3	38.6	33.9	35.1	38.5
5000	35.8	34.9	34.3	33.4	31.5	30.9	28.3	27.7	26.3	30.5	27.0	32.1	33.6	35.6	37.9	31.6	24.0	25.4	32.0
6300	27.9	26.3	26.5	23.9	21.7	21.1	19.7	19.0	18.6	17.1	13.1	22.1	23.6	27.7	30.5	20.8	10.9	11.9	21.4
8000	19.0	18.1	18.8	14.9	9.9	7.4	3.0	2.3	3.8	3.8	10.0	12.8	19.6	23.6	23.6	11.8			14.8
10000	9.4	8.2	7.0	5.9							2.0	11.2	13.5	2.8					7.1
12500												2.9	3.3						
15000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATIONS)										METEOROLOGY: ()									
C-131B (T-293) AIRCRAFT (IDLE, 800 RPM)										TEMP = 59 F									
ENG. R-2800-103M (SINGLE ENGINE)										BAR PRESS = 29.92 IN HG									
GROUND RUNUP ()										REL HUMID = 70 %									
										DELTA N = -3.0 DB									
IDENTIFICATION: ()																			
OMEGA 8.2																			
TEST 74-004-034																			
AIRCRAFT CODE 020																			
OPERATION CODE 02013																			
PROFILE VERSION A																			
19 FEB 76																			
PAGE E1																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	80.7	85.4	82.7	83.1	84.5	84.9	85.1	85.8	82.2	83.7	85.6	85.9	86.3	85.3	86.1	83.9	79.9	81.1	81.9
250	84.4	83.2	83.5	80.9	82.3	82.6	82.8	83.4	79.8	81.4	83.3	83.6	84.0	82.9	83.8	81.6	77.6	78.8	79.7
315	82.0	81.9	81.2	78.6	79.9	80.2	80.4	81.0	77.4	79.2	80.9	81.2	81.7	80.7	81.5	79.2	75.2	76.4	77.4
400	79.7	78.6	78.3	76.3	77.6	77.9	77.9	78.6	75.0	76.8	78.5	78.8	79.4	78.4	79.1	76.8	72.8	74.0	75.1
500	77.3	76.3	76.6	74.0	75.1	75.4	75.5	76.1	72.5	74.3	76.0	76.3	76.9	76.0	76.6	74.3	70.3	71.5	72.7
530	74.8	73.8	74.1	71.5	72.4	72.7	72.9	73.6	70.4	71.7	73.4	73.8	74.4	73.5	74.1	71.6	67.8	68.8	70.3
800	72.3	71.3	71.6	69.0	69.7	69.9	70.3	70.9	67.3	69.0	70.8	71.1	71.6	71.0	71.4	68.8	65.2	65.9	67.7
1000	69.5	68.5	68.9	66.3	66.9	67.0	67.5	68.2	64.2	66.2	68.0	68.4	68.8	68.3	68.7	66.0	62.4	63.8	65.1
1250	66.4	65.4	65.8	63.1	63.8	63.9	64.0	64.6	61.0	63.0	64.5	65.0	65.6	65.4	65.7	62.8	59.4	59.8	62.1
1600	63.6	61.9	62.3	59.8	61.3	60.4	60.1	60.7	57.1	59.3	60.6	61.1	62.3	62.3	62.7	59.5	55.9	56.3	58.7
2000	59.1	58.3	58.5	56.3	56.4	56.5	56.7	56.3	52.5	55.1	56.2	57.3	58.9	58.8	59.1	55.9	52.2	52.4	55.3
2500	54.7	53.9	54.3	51.8	51.7	51.6	50.3	51.0	47.4	50.5	50.5	52.5	54.3	54.5	54.8	51.2	47.4	47.5	50.7
3150	49.3	48.5	48.5	46.4	46.2	46.2	46.2	44.1	41.9	45.3	44.6	47.2	49.0	49.2	50.0	46.0	41.7	41.9	45.1
4000	43.6	42.2	42.1	40.0	39.1	38.9	38.4	36.3	34.2	38.2	37.4	40.1	42.4	43.2	44.3	39.5	33.9	35.1	38.5
5000	36.5	35.5	35.0	33.4	32.5	31.9	28.3	28.4	26.3	31.5	28.1	33.2	34.5	35.6	37.9	32.3	24.0	25.4	32.0
6500	28.3	26.7	27.0	23.9	22.4	21.8	15.7	15.5	12.6	17.8	13.9	22.9	24.2	27.7	30.5	21.3	10.9	11.9	21.4
8000	19.2	18.3	17.3	14.9	10.3	7.7	3.4	2.6	4.2	4.2	10.4	13.1	19.6	23.6	23.6	12.0			14.8
10000	9.4	8.2	7.3	5.9							2.0	11.2	13.5	2.8					7.1
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																									
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																									
NOISE SOURCE/SUBJECT: C-131B (T-293) AIRCRAFT (IDLE, 800 RPM SINGLE ENGINE GROUND RUNUP)										METEOROLOGY: 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = -3.0 DB															
OPERATION: 028 OPERATION CODE 02013 PROFILE VERSION A 19 FEB 76 PAGE F1										IDENTIFICATION: OMEGA 8.2 TEST 74-004-034 RUN 01															
DISTANCE (FEET)		0	10	20	30	40	50	60	70	ANGLE (DEGREES)					80	90	100	110	120	130	140	150	160	170	180
200		71.2	70.7	70.8	69.9	68.9	68.9	68.5	67.9	66.7	65.9	65.9	65.5	64.6	63.8	63.4	64.8	66.1	67.0	67.8	68.4	69.1	69.9	70.3	71.2
250		69.2	68.6	68.7	67.8	66.8	66.8	66.4	65.8	65.5	64.6	64.6	64.2	63.4	62.5	62.5	63.8	65.1	66.0	66.8	67.4	68.1	68.9	69.3	70.2
315		67.1	66.5	66.7	65.7	64.7	64.7	64.4	63.8	63.5	62.6	62.6	62.2	61.3	60.4	60.4	61.7	63.0	63.9	64.7	65.4	66.1	66.9	67.3	68.2
400		65.0	64.4	64.5	63.6	62.6	62.6	62.2	61.6	61.3	60.4	60.4	60.1	59.2	58.2	58.2	59.5	60.8	61.7	62.5	63.2	63.9	64.7	65.1	66.0
500		62.8	62.2	62.4	61.4	60.4	60.4	60.1	59.2	58.2	57.2	57.2	56.8	55.9	54.9	54.9	56.2	57.5	58.4	59.2	60.0	60.8	61.5	61.9	62.8
630		60.5	60.0	60.1	59.1	58.1	58.1	57.9	57.0	56.0	55.0	55.0	54.6	53.7	52.7	52.7	54.0	55.3	56.2	57.0	57.8	58.5	59.3	59.7	60.6
800		58.2	57.6	57.7	56.8	55.8	55.7	55.5	54.7	53.5	52.5	52.5	52.1	51.2	50.2	50.2	51.5	52.8	53.7	54.5	55.3	56.0	56.8	57.2	58.1
1000		55.8	55.2	55.4	54.4	53.3	53.2	53.1	52.3	51.1	50.1	50.1	49.7	48.8	47.8	47.8	49.1	50.4	51.3	52.1	52.9	53.6	54.4	54.8	55.7
1250		53.1	52.6	52.7	51.8	50.6	50.5	50.3	49.5	48.4	47.4	47.4	47.0	46.1	45.1	45.1	46.4	47.7	48.6	49.4	50.2	50.9	51.7	52.1	53.0
1500		50.3	49.8	49.9	48.9	47.9	47.7	47.3	46.6	45.5	44.5	44.5	44.1	43.2	42.2	42.2	43.5	44.8	45.7	46.5	47.3	48.0	48.8	49.2	50.1
2000		47.4	46.9	47.0	46.1	44.9	44.7	44.2	43.5	42.6	41.6	41.6	41.2	40.3	39.3	39.3	40.6	41.9	42.8	43.6	44.4	45.1	45.9	46.3	47.1
2500		44.1	43.6	43.7	42.9	41.7	41.4	40.7	40.1	39.3	38.3	38.3	37.9	37.0	36.0	36.0	37.3	38.6	39.5	40.3	41.1	41.9	42.7	43.1	44.0
3150		40.4	40.0	40.1	39.4	38.1	37.8	36.9	36.4	35.7	34.7	34.7	34.3	33.4	32.4	32.4	33.7	35.0	35.9	36.7	37.5	38.3	39.1	39.5	40.4
4000		36.4	36.0	36.2	35.5	34.3	33.9	33.3	32.4	31.8	30.8	30.8	30.4	29.5	28.5	28.5	29.8	31.1	32.0	32.8	33.6	34.4	35.2	35.6	36.5
5000		32.1	31.7	32.1	31.4	30.2	29.8	29.7	29.2	28.6	27.6	27.6	27.2	26.3	25.3	25.3	26.6	27.9	28.8	29.6	30.4	31.2	32.0	32.4	33.3
6300		27.6	27.3	27.7	27.0	25.8	25.4	24.3	23.9	23.2	22.2	22.2	21.8	20.9	19.9	19.9	21.2	22.5	23.4	24.2	25.0	25.8	26.6	27.0	27.9
8000		23.8	23.5	23.7	23.0	21.6	21.3	20.4	20.0	19.2	18.2	18.2	17.8	16.9	15.9	15.9	17.2	18.5	19.4	20.2	21.0	21.8	22.6	23.0	23.9
10000		19.9	19.5	19.5	18.8	17.3	17.0	16.4	16.1	15.1	14.1	14.1	13.7	12.8	11.8	11.8	13.1	14.4	15.3	16.1	16.9	17.7	18.5	18.9	19.8
12500		15.7	15.3	15.1	14.4	12.7	12.6	12.5	12.1	10.8	10.8	10.8	10.4	9.5	8.5	8.5	9.8	11.1	12.0	12.8	13.6	14.4	15.2	15.6	16.5
15000		11.4	10.8	10.6	9.8	8.2	8.2	8.0	7.8	6.7	6.7	6.7	6.3	5.4	4.4	4.4	5.7	6.9	7.8	8.6	9.4	10.2	11.0	11.4	12.3
20000		6.9	6.3	6.1	5.1	3.8	4.0	3.4	4.8	2.7	2.9	2.9	2.5	1.6	0.6	0.6	1.9	3.1	4.0	4.8	5.6	6.4	7.2	7.6	8.5
25000		2.5	1.7	1.7	0.6	.1	.1	2.2	1.6	.5	.7	.7	1.3	2.4	2.8	2.8	3.7	4.9	5.8	6.6	7.4	8.2	9.0	9.4	10.3

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATIONS)																			
C-131B (17-298) AIRCRAFT (IDLE, 800 RPM)																			
ENG. R-2800-103M (SINGLE ENGINE)																			
GROUND RUNUP ()																			
METEOROLOGY: ()																			
TEMP = 53 F ()																			
BAR PRESS = 29.92 IN HG ()																			
REL HUMID = 73 % ()																			
DELTA N = -3.6 DB ()																			
IDENTIFICATION: ()																			
OMEGA 8.2 ()																			
TEST 74-104-034 ()																			
RUN 01 ()																			
AIRCRAFT CODE 028 ()																			
OPERATION CODE 02013 ()																			
PROFILE VERSION A ()																			
19 FEB 76 ()																			
PAGE 51 ()																			
DISTANCE (FEET)																			
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	72.4	71.7	72.0	69.9	70.5	70.4	68.5	68.7	66.7	69.7	69.5	70.8	71.8	71.2	72.0	69.4	65.6	66.4	67.8
250	70.4	69.6	69.9	67.8	68.4	68.3	66.4	66.7	64.6	67.7	67.4	68.7	69.7	69.1	69.9	67.4	63.6	64.4	65.7
315	68.3	67.5	67.8	65.7	66.3	66.2	64.4	64.6	62.5	65.6	65.3	66.6	67.6	67.0	67.8	65.3	61.5	62.3	63.6
400	66.2	65.4	65.7	63.6	64.2	64.1	62.2	62.5	60.3	63.4	63.2	64.5	65.5	64.9	65.6	63.1	59.3	60.2	61.5
500	64.0	63.2	63.5	61.4	62.0	61.9	60.1	60.3	58.2	61.2	61.0	62.3	63.3	62.7	63.4	61.0	57.2	58.0	59.3
630	61.7	61.0	61.3	59.1	59.7	59.6	57.7	58.1	55.9	59.0	58.8	60.1	61.0	60.4	61.1	58.7	54.9	55.6	57.0
800	59.4	58.6	58.9	56.8	57.3	57.3	55.5	55.8	53.5	56.6	56.4	57.8	58.7	58.1	58.8	56.3	52.5	53.2	54.7
1000	57.0	56.2	56.5	54.4	54.9	54.8	53.1	53.4	51.1	54.1	54.0	55.4	56.2	55.7	56.4	53.8	50.0	50.7	52.3
1250	54.3	53.6	53.9	51.8	52.2	52.1	50.3	50.7	48.4	51.4	51.2	52.7	53.6	53.1	53.8	51.2	47.3	48.0	49.8
1500	51.5	50.8	51.1	49.0	49.4	49.3	47.3	47.7	45.4	48.4	48.3	50.0	50.9	50.4	51.1	48.4	44.6	45.2	47.1
2000	48.6	47.9	48.1	46.1	46.5	46.3	44.2	44.6	42.3	45.3	45.2	47.1	48.0	47.5	48.3	45.5	41.7	42.2	44.4
2500	45.3	44.6	44.9	42.9	43.3	43.0	40.7	41.2	38.9	41.9	41.8	43.8	44.7	44.3	45.1	42.2	38.3	38.8	41.2
3150	41.6	41.0	41.3	39.4	39.7	39.4	36.9	37.5	35.2	38.2	38.1	40.2	41.1	40.7	41.5	38.6	34.5	35.1	37.5
4000	37.4	36.8	37.2	35.5	35.6	35.2	32.9	33.3	31.0	34.0	33.7	35.9	36.9	36.3	37.7	34.4	30.4	31.0	33.5
5000	32.8	32.3	32.8	31.4	31.1	30.7	28.7	28.9	26.6	29.6	29.5	31.4	32.3	32.5	33.4	29.8	26.0	26.7	29.1
6300	28.1	27.7	28.1	27.0	26.4	26.0	24.3	24.3	23.2	26.2	26.2	28.6	29.6	29.6	30.9	25.1	21.5	22.2	24.5
8000	24.1	23.7	24.0	23.0	22.0	21.6	20.4	20.3	19.2	22.0	21.9	24.2	25.2	25.2	26.2	21.2	17.8	18.5	21.0
10000	19.9	19.5	19.5	18.8	17.3	17.0	16.4	16.1	15.1	18.1	18.1	20.5	21.6	21.6	22.2	17.0	14.0	14.8	17.2
12500	15.7	15.3	15.1	14.4	12.7	12.6	12.3	12.1	10.8	13.8	13.8	16.3	17.4	17.4	18.3	12.9	10.0	10.9	13.2
16000	11.4	10.8	10.6	9.8	8.2	8.2	8.0	8.3	7.1	10.6	10.6	13.1	14.4	14.4	15.0	8.6	5.9	6.9	9.0
20000	6.9	6.3	6.1	5.1	3.5	4.0	3.4	4.8	2.7	7.1	7.1	9.6	10.9	11.0	12.4	4.2	1.8	2.9	4.5
25000	2.5	1.7	1.7	.6	.1	.1	2.2	1.6	.5	.7	.5	.7	1.3	2.4	2.8	.5	.5	.5	.5

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
C-1318 (T-298) AIRCRAFT																
ENG. R-2800-103M																
GROUND RUNUP																
OPERATION:																
GROUND POWER CHECK																
2050 RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-034																
RUN 02																
AIRCRAFT CODE 028																
OPERATION CODE 02008																
PROFILE VERSION A																
19 FEB 76																
PAGE 02																
BAND CENTER																
FREQ (HZ)																
50	69	68	69	72	73	76	78	83	81	87	91	93	94	94	93	92
63	85	82	84	81	81	81	82	82	79	78	81	83	82	82	83	82
80	91	91	90	88	87	89	95	95	90	80	84	82	77	79	79	79
100	86	86	85	84	80	82	93	94	84	82	81	83	83	86	84	83
125	86	84	83	84	84	81	85	81	79	79	76	79	81	85	86	82
160	83	83	84	81	80	80	85	81	79	79	77	75	78	91	83	84
200	85	84	81	80	78	78	79	75	75	73	78	79	84	85	88	87
250	87	87	85	82	81	84	79	81	80	80	83	79	88	88	89	84
315	86	84	83	80	80	79	76	78	77	81	82	79	84	87	89	87
400	83	82	81	80	81	79	75	76	75	81	83	86	85	85	80	84
500	80	78	78	78	75	70	73	74	72	78	82	86	84	84	80	84
630	76	75	74	75	72	71	71	74	69	79	81	84	80	79	76	77
800	73	73	72	73	70	69	69	72	67	79	81	84	80	79	76	77
1000	72	72	70	70	68	68	68	70	65	81	82	83	77	77	75	73
1250	71	70	69	69	68	66	65	66	65	78	79	81	77	76	73	72
1600	68	68	67	67	66	67	66	66	66	73	73	74	75	74	70	69
2000	71	70	72	69	68	66	67	67	68	71	71	72	73	72	69	67
2500	67	67	68	70	67	65	66	67	68	68	68	70	70	70	68	65
3150	64	65	64	63	64	63	63	65	65	65	64	67	66	66	64	61
4000	63	64	63	62	63	62	62	63	63	65	62	64	64	63	61	58
5000	60	60	60	59	59	59	59	60	60	61	59	60	59	59	58	54
6300	58	58	58	57	57	58	58	59	59	59	57	58	57	56	56	51
8000	50	50	55	54	54	55	56	56	56	56	54	55	54	53	54	50
10000	54	54	53	53	52	52	54	54	54	54	52	51	52	51	51	49
OVERALL	96	96	95	93	92	93	99	97	93	93	95	97	97	98	97	95
																100
																80

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATIONS:) METEOROLOGY: = 59 F																			
C-131B (T-299) AIRCRAFT (GROUND POWER: CHECK) TEMP = 29.92 IN HG																			
ENG. R-2800-103M (2050 RPM) BAR PRESS = 73 %																			
GROUND RUNUP (SINGLE ENGINE) REL HUMID = 73 %																			
DELTA N = -3.0 DB																			
IDENTIFICATION:) OMEGA 8.2																			
TEST 74-004-034																			
RUN 32																			
AIRCRAFT CODE 029																			
OPERATION CODE 02008																			
PROFILE VERSION A																			
19 FEB 76																			
PAGE 02																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180																			
200	102.2	101.7	100.8	99.3	98.6	98.2	101.3	101.2	98.2	100.8	101.0	103.7	103.7	103.8	103.4	100.6	105.4	95.2	84.8
250	100.1	99.6	98.7	97.2	96.5	96.1	99.2	99.1	96.0	98.6	99.7	101.6	101.6	101.7	101.3	98.5	103.3	93.1	82.6
315	98.0	97.5	96.6	95.0	94.3	93.9	97.0	97.0	93.9	96.4	97.5	99.4	99.4	99.6	99.1	96.4	101.2	90.9	80.3
400	95.8	95.3	94.4	92.8	92.1	91.5	94.9	94.8	91.3	94.2	95.2	97.2	97.2	97.4	96.9	94.1	99.0	88.6	77.9
500	93.5	93.0	92.0	90.4	89.7	89.0	92.0	92.0	89.1	91.9	92.9	94.9	94.9	95.1	94.6	91.7	96.6	86.2	75.4
630	91.1	90.4	89.5	88.0	87.3	86.5	90.3	90.1	86.2	89.4	90.5	92.5	92.5	92.1	89.1	94.1	83.6	73.0	
800	88.6	87.7	86.7	85.5	84.8	83.9	87.7	87.5	83.8	86.9	88.1	90.1	89.7	90.1	89.4	86.5	91.6	81.1	70.5
1000	86.0	84.9	83.8	82.8	82.2	81.2	85.0	84.6	81.0	84.4	85.5	87.6	87.1	87.5	86.6	83.6	89.0	78.5	67.8
1250	82.9	82.0	81.0	80.1	79.4	78.4	81.5	81.4	77.7	81.0	82.0	84.9	84.4	84.7	83.5	80.5	86.3	75.4	64.7
1600	79.6	79.0	78.3	77.1	76.5	75.4	77.8	77.7	74.0	78.8	80.0	82.2	81.6	81.8	80.5	77.7	82.7	72.1	61.3
2000	76.5	75.8	74.9	74.0	73.4	72.3	73.7	73.7	70.5	75.7	77.0	79.2	78.6	78.8	77.4	74.6	79.2	68.5	57.5
2500	72.6	71.9	70.9	70.0	69.4	68.3	69.1	69.2	66.4	71.9	73.6	76.3	74.9	75.0	73.9	70.8	75.4	64.8	53.6
3150	68.2	67.5	66.5	65.6	65.0	63.8	64.0	64.2	61.8	67.7	70.0	72.3	71.2	70.9	69.8	66.7	71.3	60.6	49.0
4000	63.1	62.4	61.4	60.6	59.8	58.6	59.2	59.2	56.5	63.2	65.7	68.2	66.9	66.3	65.2	62.1	66.7	55.8	44.5
5000	57.7	56.9	56.0	55.4	54.1	53.3	52.6	53.0	50.9	58.6	61.0	63.4	62.0	61.4	60.2	57.0	61.0	50.5	39.4
6300	52.3	51.3	50.4	49.9	47.9	47.7	46.6	48.0	44.1	53.7	55.7	58.4	57.0	56.3	55.0	51.7	56.6	44.6	30.3
8000	48.2	47.0	46.0	45.4	43.5	42.7	41.9	43.3	39.6	48.7	51.6	54.3	52.6	52.3	50.9	47.3	52.6	39.8	23.6
10000	43.1	41.9	40.6	39.6	37.5	37.0	36.3	37.0	33.5	43.0	46.7	49.3	47.9	47.6	46.5	42.4	48.0	34.6	13.5
12500	37.1	35.8	34.2	33.8	32.5	31.0	29.9	31.1	26.4	37.2	41.0	44.2	42.4	42.2	41.2	36.6	42.6	28.2	3.4
16000	31.3	29.6	28.2	27.3	25.8	23.8	20.9	22.8	16.6	30.2	34.6	38.5	36.3	36.1	35.2	30.6	36.7	19.0	
20000	23.4	21.8	18.1	16.2	10.3	13.5	6.9	8.0	6.7	20.0	27.0	31.2	29.8	29.5	28.0	20.4	29.4	7.7	
25000	13.0	8.3	7.9	5.1	6.8	3.1				9.8	15.4	22.2	18.6	18.4	17.3	7.6	19.3		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(C-131B (T-293) AIRCRAFT																			
(ENG. R-2800-103M																			
(GROUND RUNUP																			
(OPERATION:																			
(GROUND POWER CHECK																			
(2050 RPM																			
(SINGLE ENGINE																			
METEOROLOGICAL:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = -3.0 DB																			
IDENTIFICATION:																			
(OMEGA 8.2																			
(TEST 74-004-034																			
(AIRCRAFT CODE 028																			
(OPERATION CODE 02008																			
(PROFILE VERSION A																			
(19 FEB 76																			
(PAGE 02																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
250	102.2	101.7	102.4	100.6	99.3	98.2	101.3	101.2	98.9	100.6	101.8	103.7	104.5	104.4	103.4	101.2	100.2	96.0	85.6
250	100.1	99.6	100.3	98.4	97.2	96.1	99.2	99.1	96.8	98.6	99.7	101.6	102.3	102.3	101.3	99.1	100.1	93.9	83.4
315	98.0	97.5	98.1	96.3	95.0	93.9	97.0	97.0	94.6	96.4	97.5	99.4	100.2	100.1	98.1	97.0	102.0	91.7	81.1
400	95.6	95.3	95.9	94.0	92.7	91.5	94.9	94.8	92.2	94.2	95.2	97.2	98.0	97.9	96.9	94.7	99.8	89.4	78.7
500	93.5	93.0	93.6	91.7	90.4	89.0	92.6	92.5	89.1	91.9	92.9	94.9	95.7	95.6	94.0	92.3	97.4	87.0	75.2
630	91.1	90.4	91.1	89.3	88.0	86.5	90.3	90.1	87.2	89.4	90.5	92.5	93.1	93.1	92.1	89.7	94.9	84.4	73.8
800	88.6	87.7	88.3	86.7	85.5	83.9	87.7	87.5	84.5	86.9	88.1	90.1	90.5	90.5	89.4	87.1	92.4	81.9	71.3
1000	86.0	84.3	85.4	84.1	82.9	81.2	85.0	84.8	81.7	84.4	85.5	87.6	87.9	86.0	86.6	84.2	89.8	79.3	69.5
1250	82.9	82.0	82.6	81.3	80.1	78.4	81.5	81.4	78.4	81.6	82.8	84.9	85.2	85.2	83.5	81.1	86.8	76.2	65.5
1500	79.6	79.0	79.6	78.4	77.1	75.4	77.8	77.7	74.7	78.0	80.0	82.2	82.4	82.4	80.5	78.3	83.5	72.9	62.1
2000	76.5	75.8	76.5	75.3	74.1	72.3	73.7	73.7	71.2	75.7	77.0	79.2	79.4	79.4	77.4	75.2	80.0	69.3	59.3
2500	72.6	71.9	72.5	71.3	70.1	68.3	69.1	69.1	67.1	71.9	73.3	76.0	75.6	75.5	73.9	71.4	76.2	65.6	54.4
3150	68.2	67.5	68.1	66.9	65.6	63.8	64.0	64.2	62.5	67.7	70.0	72.3	71.9	71.4	69.8	67.3	72.1	61.4	49.8
4000	63.1	62.4	62.7	61.6	60.4	58.2	59.2	59.2	57.1	63.2	65.7	68.2	67.5	66.8	65.2	62.6	67.4	56.4	44.2
5000	57.7	56.9	58.9	58.2	56.5	53.3	52.0	53.0	51.3	58.0	61.0	63.4	62.5	61.8	60.2	57.4	62.2	51.3	37.9
5300	52.3	51.3	51.3	50.4	48.2	47.7	46.0	48.0	45.0	53.7	57.7	58.4	57.3	56.5	54.0	52.0	56.9	44.9	30.6
6000	48.2	47.0	46.4	45.7	43.7	42.7	41.9	43.3	39.8	48.7	51.6	54.3	52.8	52.4	51.9	47.4	52.7	40.0	23.7
10000	43.1	41.9	40.0	39.0	37.5	37.0	36.3	37.5	33.5	43.0	46.7	49.5	47.9	47.6	46.5	42.4	48.0	34.6	13.5
12500	37.1	35.8	34.2	33.8	32.5	31.0	29.9	31.9	28.4	37.2	41.0	44.2	42.4	42.2	41.2	36.6	42.6	28.2	3.4
15000	31.3	29.6	28.2	27.3	25.8	23.8	20.9	22.8	18.6	30.2	34.6	38.5	36.3	36.1	35.2	30.6	36.7	19.0	
20000	23.4	21.0	18.1	16.2	15.3	13.5	6.9	8.0	0.7	20.0	27.0	31.2	29.8	29.5	28.0	20.4	29.4	7.7	
25000	13.6	3.3	7.9	5.1	0.8	3.1				9.8	15.4	22.2	18.6	18.4	17.3	7.6	19.3		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBS)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-131B (F-298) AIRCRAFT																
ENG. R-280J-103M																
GROUND RUNUP																
OPERATION:																
GROUND POWER CHECK																
2650 RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 73 %																
DELTA N = -3.0 DB																
DISTANCE (FEET)																
ANGLE (DEGREES)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310
200	88.4	87.6	86.7	85.6	84.6	83.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
250	86.4	85.6	84.6	83.6	82.5	81.6	82.7	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
315	84.3	83.5	82.6	81.5	80.4	79.5	80.6	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
400	82.3	81.4	80.5	79.4	78.3	77.4	78.5	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
500	80.3	79.3	78.3	77.2	76.2	75.2	76.4	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
630	77.9	77.0	76.0	75.0	73.9	73.0	74.1	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
810	75.6	74.7	73.7	72.7	71.7	70.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
1000	73.2	72.3	71.3	70.3	69.2	68.2	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
1250	70.6	69.7	68.7	67.8	66.8	65.8	66.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
1500	67.9	66.9	65.9	65.1	64.2	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
2000	65.0	64.1	63.1	62.4	61.5	60.4	60.2	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
2500	61.7	60.8	59.8	59.3	58.2	57.2	56.7	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
3150	58.0	57.1	56.1	55.8	54.5	53.5	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
4000	53.9	53.1	52.1	51.9	50.4	49.5	48.7	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
5000	49.4	48.7	47.5	47.6	45.9	45.1	44.3	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
6300	44.9	44.1	43.1	43.1	41.3	40.6	39.8	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
8000	41.4	40.5	39.5	39.5	37.8	37.1	36.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
10000	37.6	36.7	35.7	35.6	34.0	33.3	32.7	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
12500	33.6	32.7	31.6	31.4	30.0	29.2	29.0	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
16000	29.3	28.3	27.3	26.9	25.6	24.8	25.3	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
20000	24.7	23.6	22.6	22.0	20.9	20.2	21.6	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
25000	19.8	18.8	17.8	16.8	15.9	15.3	18.1	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1. TONE-EXPOSED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
IDENTIFICATION:																
) OMEGA 8.2																
) TEST 74-304-034																
) RUN 02																
) AIRCRAFT CODE 028																
) OPERATION CODE 02J08																
) PROFILE VERSION A																
) 19 FEB 76																
) PAGE 02																
) METEOROLOGY:																
) TEMP 59 F																
) BAR PRESS = 29.92 IN HG																
) REL HUMID = 73 %																
) DELTA M = -3.6 DB																
) ANGLE (DEGREES)																
) DISTANCE (FEET)																
1-	2-	3-	4-	5-	6-	7-	8-	9-	10-	11-	12-	13-	14-	15-	16-	17-
200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000	12500	13000
13500	14000	14500	15000	15500	16000	16500	17000	17500	18000	18500	19000	19500	20000	20500	21000	21500
22000	22500	23000	23500	24000	24500	25000	25500	26000	26500	27000	27500	28000	28500	29000	29500	30000

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
 OMEGA 8.2
 TEST 74-004-034
 RUN 02
 AIRCRAFT CODE 024
 OPERATION CODE 0208
 PROFILE VERSION A
 19 FEB 76
 PAGE J2

NOISE SOURCE/SUBJECT:	PSPMLT		A=AL		T=ALT						
	15	20	30	40	50	60	70	80	90	100	110
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 026																			
C-131B (T-29B) AIRCRAFT (TAKEOFF POWER, 2800 RPM)) TEMP = 59 F) OPERATION CODE 02030																			
ENG. R-2800-103H (SINGLE ENGINE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND KUNUP ((REL HUMID = 70 %) 19 FEB 76																			
((DELTA N = -3.0 DB) PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
50	85	82	85	85	84	87	89	88	91	91	95	95	94	96	91	89	90	80	70
63	98	94	96	96	100	104	105	101	93	103	106	110	113	112	108	105	100	90	80
80	84	83	83	84	84	87	89	89	86	85	87	90	91	93	88	86	80	70	60
100	88	88	87	89	91	92	93	91	91	92	94	93	94	92	89	86	79	69	59
125	100	100	101	104	105	99	95	99	105	108	110	107	103	100	100	91	79	69	59
160	99	96	97	97	103	99	100	99	102	102	104	101	105	104	103	94	86	76	66
200	101	103	102	97	96	93	96	97	101	103	100	102	103	102	96	88	81	71	61
250	105	104	103	99	98	102	100	101	103	106	105	104	107	107	99	91	84	74	64
315	105	105	101	100	99	102	96	102	105	105	104	107	102	107	97	88	84	74	64
400	103	100	98	99	98	99	98	96	100	100	102	101	103	103	93	82	78	68	58
500	101	102	100	97	99	97	97	96	101	99	101	103	104	103	96	84	81	71	61
630	96	98	95	98	95	92	93	95	94	95	97	98	101	99	90	81	78	68	58
800	95	95	93	96	94	94	94	94	95	96	97	99	99	99	92	82	80	70	60
1000	93	92	92	93	92	91	91	93	92	94	97	96	97	97	88	80	78	68	58
1250	91	90	92	91	90	90	90	92	93	92	96	95	96	96	87	79	76	66	56
1600	89	88	89	89	88	87	90	91	93	91	93	94	95	94	84	78	73	63	53
2000	87	87	87	88	87	86	89	89	91	89	93	94	95	94	83	77	72	62	52
2500	87	87	87	87	87	86	88	89	91	90	93	93	94	94	84	77	72	62	52
3150	85	85	84	84	85	84	86	87	89	88	90	91	92	92	83	75	71	61	51
4000	84	83	84	83	84	83	85	85	89	87	89	90	91	91	83	75	71	61	51
5000	81	80	80	81	81	80	81	82	86	84	85	88	87	87	80	72	68	58	48
6300	80	79	79	79	79	78	80	80	84	83	84	86	85	85	79	71	66	56	46
8000	76	75	76	76	75	77	77	77	81	80	81	82	82	81	76	68	63	53	43
10000	72	72	73	72	72	71	73	74	77	78	81	80	79	77	71	64	59	49	39
OVERALL	112	111	110	110	110	110	109	109	112	113	115	115	115	117	111	106	101	91	81

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PN09)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGICAL: () AIRCRAFT CODE 028																			
C-1318 (T-299) AIRCRAFT (TAKEOFF POWER, 2800 RPM) TEMP = 59 F () OPERATION CODE 02330																			
ENG. R-2500-133M (SINGLE ENGINE) BAR PRESS = 29.92 IN HG () PROFILE VERSION A																			
GROUND RUNUP (REL HUMID = 70 %) 19 FEB 76 () PAGE 03																			
DELTA N = -3.0 DB																			
DISTANCE																			
(FEET)	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
ANGLE (DEGREES)																			
200	120.2	113.9	110.5	117.9	110.0	110.2	117.6	119.4	121.4	121.6	122.0	123.8	123.7	124.6	116.5	110.0	104.9	94.7	83.8
250	118.1	117.8	116.4	115.8	115.9	116.1	115.5	116.8	119.2	119.4	120.7	121.7	121.6	122.4	114.4	107.9	102.7	92.5	81.4
315	116.0	115.6	114.2	113.6	113.7	114.6	113.3	114.7	117.1	117.3	118.5	119.5	119.5	120.3	112.2	105.7	100.6	90.3	78.9
400	113.8	113.5	112.0	111.4	111.5	111.8	111.1	112.5	114.9	115.1	116.3	117.3	117.3	118.1	110.0	103.5	98.4	88.0	76.4
500	111.6	111.2	109.7	109.1	109.2	109.5	108.8	110.2	112.6	112.8	114.0	115.0	115.0	115.8	107.6	101.3	96.1	85.5	73.8
630	109.2	108.9	107.2	106.8	106.9	107.2	106.5	107.8	110.2	110.5	111.5	112.7	112.5	113.3	105.0	99.0	93.7	82.8	71.1
800	106.8	106.5	104.7	104.3	104.4	104.8	104.0	105.4	107.8	108.0	108.9	110.3	109.8	110.7	102.6	96.5	91.3	80.1	68.4
1000	104.3	103.9	102.1	101.8	101.9	102.2	101.4	102.8	105.2	105.4	106.3	107.7	107.2	107.9	100.1	94.0	88.8	77.3	65.5
1250	101.5	101.0	99.4	99.1	99.2	99.2	98.7	99.8	102.2	102.4	103.3	104.7	104.5	104.9	97.4	91.4	86.1	74.3	62.5
1600	98.7	97.9	96.6	96.2	96.3	96.0	95.8	96.6	98.9	99.2	100.5	101.5	101.6	101.7	94.1	88.1	82.4	70.6	58.8
2000	95.7	94.9	93.5	93.2	93.2	92.9	92.7	93.0	95.5	95.7	97.4	98.1	98.6	98.4	90.8	84.3	78.3	66.5	55.2
2500	91.9	91.6	90.2	89.4	89.2	89.1	88.9	89.0	92.1	91.7	93.6	94.7	95.2	95.0	87.3	79.7	73.8	62.7	51.0
3150	87.7	87.7	86.2	85.6	85.8	85.8	84.7	85.3	88.1	87.4	89.4	90.7	91.2	91.0	83.2	74.6	69.3	58.5	46.2
4000	83.3	83.3	81.8	81.4	81.4	80.1	80.2	80.5	83.6	82.8	84.9	86.3	86.7	86.5	78.6	69.0	64.6	53.3	40.7
5000	78.6	78.6	77.1	76.7	76.7	75.3	75.4	75.7	78.8	78.0	80.1	81.5	82.0	81.7	73.8	63.9	59.7	47.9	34.3
6300	73.7	73.8	72.2	71.8	71.8	70.3	70.4	70.7	73.8	73.0	75.1	76.5	77.0	76.8	68.8	58.6	54.1	41.7	25.5
8000	69.9	70.1	68.4	67.8	68.0	66.5	66.5	65.6	70.0	69.2	71.3	72.7	73.2	72.9	65.0	54.4	49.7	36.0	18.3
10000	65.9	66.1	64.3	63.5	63.9	62.3	62.2	62.5	65.8	65.1	67.2	68.7	69.1	68.9	60.8	49.9	44.8	30.4	7.6
12500	61.4	61.6	59.8	58.7	59.4	57.8	57.5	57.8	61.4	60.6	62.7	64.2	64.6	64.4	56.3	44.6	39.1	21.3	
16000	56.6	56.8	54.8	53.4	54.4	52.9	52.5	52.8	56.3	55.7	57.8	59.3	59.7	59.6	51.2	38.7	32.6	10.7	
20000	51.1	51.4	49.3	47.8	48.9	47.1	46.6	46.9	50.3	50.2	52.3	53.7	54.1	54.1	45.5	31.7	24.3	-1	
25000	44.8	45.0	42.6	40.9	42.0	40.1	39.5	39.8	44.2	43.7	45.8	47.6	47.9	47.9	38.7	21.6	9.3		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATIONS:)																			
C-131B (T-293) AIRCRAFT (TAKEOFF POWER, 2800 RPM)																			
ENG. R-2800-103M (SINGLE ENGINE)																			
GRJND RUNUP ()																			
METEOROLOGY:)																			
TEMP = 59 F)																			
BAR PRESS = 29.92 IN HG)																			
REL HUMID = 73 %)																			
DELTA N = -3.0 DB)																			
IDENTIFICATIONS:)																			
OMEGA 8.2)																			
TEST 74-J04-034)																			
RUN 03)																			
AIRCRAFT CODE 028)																			
OPERATION CODE 02030)																			
PROFILE VERSION A)																			
19 FEB 76)																			
PAGE E3)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
210	121.2	121.2	119.9	119.8	119.4	119.0	118.4	119.6	122.8	123.3	124.6	125.4	124.4	125.8	117.8	110.6	105.9	95.7	84.8
230	119.1	119.1	117.6	117.7	117.2	116.9	116.3	117.5	120.7	121.2	122.5	123.3	122.3	123.7	115.7	108.5	103.7	93.5	82.4
315	117.0	116.9	115.5	115.1	114.7	114.1	113.5	114.1	115.3	116.5	117.8	119.0	120.2	121.5	113.6	106.4	101.6	91.3	79.9
400	114.8	114.8	113.3	112.9	112.5	111.9	111.3	111.9	113.1	114.3	115.6	116.8	118.0	119.2	111.3	104.2	99.3	89.0	77.4
530	112.6	112.5	111.1	111.0	110.6	110.3	109.6	109.9	111.0	112.0	113.0	114.0	115.0	116.0	108.3	101.9	97.1	86.4	74.8
630	110.2	110.2	108.6	108.7	108.2	108.0	107.2	108.5	111.7	112.2	113.3	114.4	115.2	116.6	108.4	101.6	96.6	85.8	72.1
900	107.8	107.8	106.1	106.2	105.8	105.5	104.8	106.1	109.2	109.6	110.7	111.9	112.5	113.9	105.9	97.2	92.3	81.1	69.4
1000	105.3	105.2	103.5	103.7	103.2	103.0	102.2	103.5	106.6	107.2	108.1	109.4	107.9	109.1	101.4	94.7	89.8	78.3	66.5
1250	102.5	102.3	100.8	101.0	100.5	100.0	99.5	100.5	103.6	104.2	105.1	106.4	105.2	106.2	98.7	92.0	87.1	75.3	63.5
1600	99.7	99.2	98.0	98.1	97.6	96.8	96.6	97.2	100.4	100.9	101.3	102.2	102.3	103.9	95.5	88.7	83.4	71.6	59.8
2300	96.7	96.2	94.9	95.1	94.6	93.7	93.5	93.7	97.0	97.4	99.2	99.8	99.3	99.6	92.1	84.9	79.3	67.5	56.2
2500	92.9	92.9	91.6	91.3	91.2	89.8	89.6	89.7	93.6	93.4	95.4	96.4	95.9	96.2	88.6	80.3	74.8	63.7	52.0
3150	88.7	88.0	87.0	87.5	87.2	85.5	85.4	85.7	89.5	89.1	91.2	92.4	91.9	92.2	84.5	75.2	70.2	59.5	47.2
4000	84.1	84.4	82.9	82.9	82.5	80.7	80.8	81.0	84.8	84.2	86.4	87.3	87.5	87.5	79.7	69.5	65.4	54.0	41.4
5000	79.2	79.4	77.9	77.8	77.5	75.8	75.9	76.1	79.7	79.1	81.2	82.5	82.4	82.5	74.9	64.3	60.3	48.5	36.9
6300	74.1	74.3	72.8	72.5	72.3	70.6	70.7	71.0	74.4	73.7	75.9	77.2	77.3	77.3	69.3	58.9	54.5	42.1	29.3
9000	73.1	73.3	68.7	68.2	68.3	66.7	66.9	66.9	70.2	69.5	71.7	73.1	73.3	73.2	65.2	54.5	49.9	36.2	18.5
10000	65.9	66.1	64.3	63.5	63.9	62.3	62.2	62.5	65.8	65.1	67.2	68.7	69.1	68.9	60.8	49.9	44.8	30.4	7.6
12500	61.4	61.6	59.8	58.7	59.4	57.8	57.5	57.8	61.4	60.6	62.7	64.2	64.6	64.4	56.3	44.6	39.1	21.3	
16000	56.6	56.8	54.8	53.4	54.4	52.9	52.5	52.8	56.3	55.7	57.8	59.3	59.7	59.6	51.2	38.7	32.6	10.7	
20000	51.1	51.4	49.3	47.8	48.9	47.1	46.0	46.3	49.9	49.2	51.3	52.8	53.1	53.1	45.1	31.7	24.3	.1	
25000	44.8	45.0	42.0	40.9	42.0	40.1	39.5	39.8	44.2	43.7	45.8	47.5	47.9	47.9	38.7	21.6	9.3		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

COPIES AVAILABLE FOR THIS ANGEL.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D9A)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
C-131B (T-293) AIRCRAFT (OPERATION: TAKEOFF POWER, 2800 RPM)																
ENG. R-2800-103M (SINGLE ENGINE)																
GROUND RUNUP ()																
METEOROLOGY: ()																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
IDENTIFICATION: ()																
OMEGA 8-2																
TEST 74-004-034																
RUN 03																
AIRCRAFT CODE 028																
OPERATION CODE 02030																
PROFILE VERSION A																
19 FEB 76																
PAGE 63																
DISTANCE (FEET)																
ANGLE (DEGREES)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 >180
200	108.0	108.9	107.3	107.7	106.6	105.7	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3
250	106.8	106.8	105.3	105.6	104.5	103.7	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2
315	104.7	104.7	103.2	103.5	102.5	101.6	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
400	102.6	102.6	101.1	101.4	100.3	99.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
500	100.5	100.5	98.9	99.3	98.2	97.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
630	98.3	98.3	96.7	97.0	95.9	95.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
800	96.0	96.1	94.4	94.8	93.7	92.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
1000	93.7	93.7	92.0	92.5	91.3	90.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
1250	91.2	91.2	89.5	90.0	88.9	87.9	87.3	86.2	85.2	84.2	83.2	82.2	81.2	80.2	79.2	78.2
1600	88.7	88.7	86.9	87.5	86.3	85.3	84.8	83.8	82.8	81.8	80.8	79.8	78.8	77.8	76.8	75.8
2000	86.0	86.0	84.3	84.9	83.7	82.5	82.1	81.1	80.1	79.1	78.1	77.1	76.1	75.1	74.1	73.1
2500	82.9	82.9	81.3	81.9	80.8	79.4	79.1	78.1	77.1	76.1	75.1	74.1	73.1	72.1	71.1	70.1
3150	79.3	79.3	77.9	78.7	77.4	75.9	75.7	74.7	73.7	72.7	71.7	70.7	69.7	68.7	67.7	66.7
4000	75.3	75.3	73.8	74.7	73.4	71.9	71.8	70.8	69.8	68.8	67.8	66.8	65.8	64.8	63.8	62.8
5000	70.7	70.7	69.4	70.3	69.0	67.5	67.5	66.5	65.5	64.5	63.5	62.5	61.5	60.5	59.5	58.5
6300	66.1	66.1	64.7	65.5	64.3	62.9	62.9	61.9	60.9	59.9	58.9	57.9	56.9	55.9	54.9	53.9
8000	62.3	62.3	60.8	61.4	60.4	59.0	59.0	58.0	57.0	56.0	55.0	54.0	53.0	52.0	51.0	50.0
10000	58.2	58.2	56.5	56.9	56.2	54.9	54.7	53.9	53.2	52.2	51.2	50.2	49.2	48.2	47.2	46.2
12500	54.1	54.1	52.2	52.4	51.9	50.5	50.3	49.5	48.5	47.5	46.5	45.5	44.5	43.5	42.5	41.5
16000	49.5	49.5	47.6	47.5	47.2	45.9	45.5	44.8	44.3	43.8	43.3	42.8	42.3	41.8	41.3	40.8
20000	44.5	44.5	42.4	42.4	42.0	40.8	40.3	39.7	39.3	38.8	38.3	37.8	37.3	36.8	36.3	35.8
25000	39.0	39.0	36.8	36.2	36.4	35.4	34.7	34.1	33.6	33.1	32.6	32.1	31.6	31.1	30.6	30.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT:
 C-131B (T-29B) AIRCRAFT
 ENG. R-2800-103M
 GROUND RUNUP
 OPERATIONS:
 TAKEOFF POWER, 2800 RPM
 SINGLE ENGINE
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB
 IDENTIFICATION:
 OMEGA 8.2
 TEST 74-004-034
 RUN 03
 AIRCRAFT CODE 023
 OPERATICN CODE 02930
 PROFILE VERSION A
 19 FEB 76
 PAGE J3

	A=AL										T=ALT									
	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
0																				
10																				
20																				
30																				
40																				
50																				
60																				
70																				
80																				
90																				
100																				
110																				
120																				
130																				
140																				
150																				
160																				
170																				
180																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATIONS:) METEOROLOGY:) AIRCRAFT CODE 028																			
C-131B (T-29B) AIRCRAFT (TAXI POWER, 1000 KPH)) TEMP = 59 F) OPERATION CODE 02015																			
ENG. R-2800-103M (SINGLE ENGINE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP ()) REL HUMID = 70 %) 20 FEB 76																			
()) DELTA N = -3.0 DB) PAGE C1																			
BAND CENTER																			
FREQ (HZ)																			
50	77	77	75	74	77	76	78	78	75	73	73	76	79	77	76	74	73	74	75
63	76	76	76	77	80	81	82	82	80	77	79	82	82	81	80	78	75	70	71
80	79	80	80	79	79	82	84	84	80	82	84	82	80	77	78	77	75	71	76
100	75	75	74	74	77	83	85	81	82	84	81	83	87	84	79	81	82	77	82
125	72	74	71	71	73	74	73	69	72	71	70	71	74	72	73	71	70	67	72
160	70	73	72	71	73	74	71	72	70	72	70	73	76	76	73	74	71	66	72
200	67	70	67	67	69	68	68	69	70	68	71	70	74	71	72	66	69	63	71
250	66	70	65	65	66	62	65	65	62	62	63	66	71	68	70	68	68	60	66
315	66	71	65	66	67	63	64	65	64	62	65	67	71	69	71	68	67	62	65
400	63	68	63	67	67	62	64	64	62	61	65	67	70	69	72	68	67	62	63
500	58	62	59	66	66	61	64	64	59	61	63	66	69	67	72	65	67	58	64
630	52	58	53	58	59	55	59	58	54	53	56	59	63	62	66	59	61	56	56
800	49	56	54	57	57	54	58	58	54	55	56	58	63	62	65	56	61	54	55
1000	47	57	51	55	55	53	56	56	54	53	54	56	59	59	63	54	59	51	52
1250	44	58	53	57	56	56	59	60	57	56	55	57	60	58	61	53	58	47	51
1600	47	56	51	56	55	53	56	56	55	57	59	59	60	58	61	54	57	48	52
2000	45	55	49	53	52	51	53	54	52	52	54	56	59	57	60	53	56	48	50
2500	44	54	48	54	53	52	54	55	54	53	53	55	58	58	60	53	55	48	49
3150	40	51	45	50	50	48	51	53	52	50	51	53	56	56	58	50	53	47	48
4000	40	52	45	50	49	48	50	52	51	49	48	51	55	56	57	50	52	47	47
5000	38	50	43	46	47	47	49	50	50	47	46	48	53	53	55	48	50	45	47
6300	37	48	42	46	46	46	47	48	48	46	45	47	51	52	54	47	49	42	45
8000	30	47	41	45	45	45	46	47	46	46	44	45	49	50	53	45	48	41	45
10000	33	43	37	41	40	40	42	43	43	41	39	40	44	44	46	41	44	37	41
OVERALL	84	85	84	84	86	86	89	88	87	87	87	88	90	88	86	85	85	80	85

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATIONS)																			
C-131B (T-28B) AIRCRAFT (TAXI POWER, 1000 RPM)																			
ENG. R-2800-133M (SINGLE ENGINE)																			
GROUND RUNUP (DELTA N = -3.0 DB)																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.5	86.2	85.3	86.8	87.8	89.6	91.5	90.1	99.4	89.8	89.5	90.9	94.1	92.1	91.7	86.9	89.9	83.9	88.1
250	82.1	85.9	82.9	84.5	85.4	87.4	89.3	87.7	87.2	87.6	87.1	88.7	92.0	89.3	89.4	86.7	87.7	81.5	86.0
315	79.7	83.5	80.5	82.1	83.1	85.2	87.1	85.3	85.0	85.4	84.7	86.5	89.8	87.7	87.2	84.4	85.5	79.1	83.8
400	77.3	81.2	78.1	79.6	80.6	82.8	84.8	82.8	82.6	83.2	82.3	84.2	87.5	85.5	84.9	82.0	83.0	76.7	81.3
500	74.8	78.8	75.6	77.3	78.1	80.3	82.5	80.3	80.1	80.7	79.8	81.7	85.2	83.3	82.5	79.5	80.5	74.2	78.8
630	72.2	76.3	73.0	74.8	75.5	77.9	79.9	77.8	77.5	78.1	77.3	79.2	82.8	80.4	80.0	77.0	78.0	71.6	76.3
800	69.5	73.8	70.4	72.3	72.8	74.9	77.1	75.1	74.7	75.3	74.6	76.4	80.0	77.5	77.5	74.1	75.2	68.8	73.4
1000	66.7	71.1	67.6	69.6	70.1	71.7	73.9	72.3	71.5	72.1	71.9	73.2	76.8	74.4	74.8	71.0	72.0	65.5	70.2
1250	63.3	68.3	64.2	66.8	67.2	68.2	70.4	68.9	68.0	68.5	68.4	69.8	73.4	71.0	72.0	67.6	68.6	62.0	66.7
1600	59.5	65.0	60.3	63.7	64.2	64.3	66.6	65.2	64.1	64.6	64.7	66.1	69.7	67.3	69.0	64.1	64.9	58.3	63.8
2000	55.8	61.6	56.5	60.3	60.7	60.8	62.3	61.0	59.7	60.2	60.4	61.9	65.6	63.7	65.8	60.7	61.4	54.5	59.4
2500	51.2	57.2	51.9	55.9	56.3	54.9	57.4	56.2	54.6	55.2	55.5	57.7	60.9	59.4	61.9	56.3	57.5	49.9	53.8
3150	45.5	52.2	46.2	51.3	51.5	48.5	51.6	51.1	48.2	48.9	50.0	52.9	55.9	54.4	57.5	51.2	52.8	44.0	48.7
4000	38.7	46.1	39.6	45.5	45.0	42.6	45.5	45.1	41.7	42.3	44.3	47.3	50.6	48.9	52.4	45.3	47.4	36.8	42.9
5000	28.1	36.8	30.4	38.4	38.4	35.7	38.2	38.2	33.8	34.5	37.2	40.8	44.5	42.7	46.8	38.6	41.1	28.6	36.0
6300	17.8	30.1	20.6	31.7	31.9	25.7	30.4	29.7	23.9	25.6	28.5	33.3	37.4	35.7	40.2	30.3	34.3	19.5	26.8
8000	11.4	23.0	12.9	25.5	25.9	16.0	23.9	23.1	12.5	14.8	19.3	26.1	31.8	29.3	35.1	24.3	28.1	11.2	21.1
10000	4.9	14.6	5.3	18.0	18.4	8.0	13.3	13.0	1.2	7.4	11.8	18.7	25.4	22.7	29.3	17.2	21.9	2.9	13.0
12500		6.7		9.7	10.2	1.2	2.1	2.9		4.2	14.6	16.1	16.1	13.9	22.4	8.8	12.0	4.9	
16000				1.4	2.0						2.5	6.9	5.1	5.1	12.5	.4	2.1		
20000																			
25000																			

TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

TABLE 1: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PHN)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NOISE SOURCE/SUBJECT:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
(C-119 (T-28) AIRCRAFT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
(ENGINE R-2800-133M																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
(GROUND RUNUP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
IDENTIFICATION:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) OMEGA 8.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) TEST 74-004-035																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) RUN 01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) AIRCRAFT CODE 028																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) OPERATION CODE 02015																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) PROFILE VERSION A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) 20 FEB 75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) PAGE E1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
METEOROLOGY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) = 53 F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) BAR PRESS = 29.92 IN HG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) REL HUMID = 73 %																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
) DELTA N = -3.0 DB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
ANGLE (DEGREES)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
DISTANCE (FEET)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
200	250	315	400	500	630	800	1000	1250	1500	2000	2500	3150	4000	5000	6300	8000	10000	12500	15000	20000	25000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
64.5	64.2	63.3	66.8	67.3	68.2	69.6	70.1	70.5	71.5	72.5	73.5	74.1	74.2	75.0	75.5	76.0	76.3	76.6	77.0	77.4	77.6	78.0	78.2	78.3	78.4	78.5	78.6	78.7	78.8	78.9	79.0	79.1	79.2	79.3	79.4	79.5	79.6	79.7	79.8	79.9	80.0	80.1	80.2	80.3	80.4	80.5	80.6	80.7	80.8	80.9	81.0	81.1	81.2	81.3	81.4	81.5	81.6	81.7	81.8	81.9	82.0	82.1	82.2	82.3	82.4	82.5	82.6	82.7	82.8	82.9	83.0	83.1	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.2	84.3	84.4	84.5	84.6	84.7	84.8	84.9	85.0	85.1	85.2	85.3	85.4	85.5	85.6	85.7	85.8	85.9	86.0	86.1	86.2	86.3	86.4	86.5	86.6	86.7	86.8	86.9	87.0	87.1	87.2	87.3	87.4	87.5	87.6	87.7	87.8	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.6	88.7	88.8	88.9	89.0	89.1	89.2	89.3	89.4	89.5	89.6	89.7	89.8	89.9	90.0	90.1	90.2	90.3	90.4	90.5	90.6	90.7	90.8	90.9	91.0	91.1	91.2	91.3	91.4	91.5	91.6	91.7	91.8	91.9	92.0	92.1	92.2	92.3	92.4	92.5	92.6	92.7	92.8	92.9	93.0	93.1	93.2	93.3	93.4	93.5	93.6	93.7	93.8	93.9	94.0	94.1	94.2	94.3	94.4	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.6	96.7	96.8	96.9	97.0	97.1	97.2	97.3	97.4	97.5	97.6	97.7	97.8	97.9	98.0	98.1	98.2	98.3	98.4	98.5	98.6	98.7	98.8	98.9	99.0	99.1	99.2	99.3	99.4	99.5	99.6	99.7	99.8	99.9	100.0	100.1	100.2	100.3	100.4	100.5	100.6	100.7	100.8	100.9	101.0	101.1	101.2	101.3	101.4	101.5	101.6	101.7	101.8	101.9	102.0	102.1	102.2	102.3	102.4	102.5	102.6	102.7	102.8	102.9	103.0	103.1	103.2	103.3	103.4	103.5	103.6	103.7	103.8	103.9	104.0	104.1	104.2	104.3	104.4	104.5	104.6	104.7	104.8	104.9	105.0	105.1	105.2	105.3	105.4	105.5	105.6	105.7	105.8	105.9	106.0	106.1	106.2	106.3	106.4	106.5	106.6	106.7	106.8	106.9	107.0	107.1	107.2	107.3	107.4	107.5	107.6	107.7	107.8	107.9	108.0	108.1	108.2	108.3	108.4	108.5	108.6	108.7	108.8	108.9	109.0	109.1	109.2	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8	111.9	112.0	112.1	112.2	112.3	112.4	112.5	112.6	112.7	112.8	112.9	113.0	113.1	113.2	113.3	113.4	113.5	113.6	113.7	113.8	113.9	114.0	114.1	114.2	114.3	114.4	114.5	114.6	114.7	114.8	114.9	115.0	115.1	115.2	115.3	115.4	115.5	115.6	115.7	115.8	115.9	116.0	116.1	116.2	116.3	116.4	116.5	116.6	116.7	116.8	116.9	117.0	117.1	117.2	117.3	117.4	117.5	117.6	117.7	117.8	117.9	118.0	118.1	118.2	118.3	118.4	118.5	118.6	118.7	118.8	118.9	119.0	119.1	119.2	119.3	119.4	119.5	119.6	119.7	119.8	119.9	120.0	120.1	120.2	120.3	120.4	120.5	120.6	120.7	120.8	120.9	121.0	121.1	121.2	121.3	121.4	121.5	121.6	121.7	121.8	121.9	122.0	122.1	122.2	122.3	122.4	122.5	122.6	122.7	122.8	122.9	123.0	123.1	123.2	123.3	123.4	123.5	123.6	123.7	123.8	123.9	124.0	124.1	124.2	124.3	124.4	124.5	124.6	124.7	124.8	124.9	125.0	125.1	125.2	125.3	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.3	126.4	126.5	126.6	126.7	126.8	126.9	127.0	127.1	127.2	127.3	127.4	127.5	127.6	127.7	127.8	127.9	128.0	128.1	128.2	128.3	128.4	128.5	128.6	128.7	128.8	128.9	129.0	129.1	129.2	129.3	129.4	129.5	129.6	129.7	129.8	129.9	130.0	130.1	130.2	130.3	130.4	130.5	130.6	130.7	130.8	130.9	131.0	131.1	131.2	131.3	131.4	131.5	131.6	131.7	131.8	131.9	132.0	132.1	132.2	132.3	132.4	132.5	132.6	132.7	132.8	132.9	133.0	133.1	133.2	133.3	133.4	133.5	133.6	133.7	133.8	133.9	134.0	134.1	134.2	134.3	134.4	134.5	134.6	134.7	134.8	134.9	135.0	135.1	135.2	135.3	135.4	135.5	135.6	135.7	135.8	135.9	136.0	136.1	136.2	136.3	136.4	136.5	136.6	136.7	136.8	136.9	137.0	137.1	137.2	137.3	137.4	137.5	137.6	137.7	137.8	137.9	138.0	138.1	138.2	138.3	138.4	138.5	138.6	138.7	138.8	138.9	139.0	139.1	139.2	139.3	139.4	139.5	139.6	139.7	139.8	139.9	140.0	140.1	140.2	140.3	140.4	140.5	140.6	140.7	140.8	140.9	141.0	141.1	141.2	141.3	141.4	141.5	141.6	141.7	141.8	141.9	142.0	142.1	142.2	142.3	142.4	142.5	142.6	142.7	142.8	142.9	143.0	143.1	143.2	143.3	143.4	143.5	143.6	143.7	143.8	143.9	144.0	144.1	144.2	144.3	144.4	144.5	144.6	144.7	144.8	144.9	145.0	145.1	145.2	145.3	145.4	145.5	145.6	145.7	145.8	145.9	146.0	146.1	146.2	146.3	146.4	146.5	146.6	146.7	146.8	146.9	147.0	147.1	147.2	147.3	147.4	147.5	147.6	147.7	147.8	147.9	148.0	148.1	148.2	148.3	148.4	148.5	148.6	148.7	148.8	148.9	149.0	149.1	149.2	149.3	149.4	149.5	149.6	149.7	149.8	149.9	150.0	150.1	150.2	150.3	150.4	150.5	150.6	150.7	150.8	150.9	151.0	151.1	151.2	151.3	151.4	151.5	151.6	151.7	151.8	151.9	152.0	152.1	152.2	152.3	152.4	152.5	152.6	152.7	152.8	152.9	153.0	153.1	153.2	153.3	153.4	153.5	153.6	153.7	153.8	153.9	154.0	154.1	154.2	154.3	154.4	154.5	154.6	154.7	154.8	154.9	155.0	155.1	155.2	155.3	155.4	155.5	155.6	155.7	155.8	155.9	156.0	156.1	156.2	156.3	156.4	156.5	156.6	156.7	156.8	156.9	157.0	157.1	157.2	157.3	157.4	157.5	157.6	157.7	157.8	157.9	158.0	158.1	158.2	158.3	158.4	158.5	158.6	158.7	158.8	158.9	159.0	159.1	159.2	159.3	159.4	159.5	159.6	159.7	159.8	159.9	160.0	160.1	160.2	160.3	160.4	160.5	160.6	160.7	160.8	160.9	161.0	161.1	161.2	161.3	161.4	161.5	161.6	161.7	161.8	161.9	162.0	162.1	162.2	162.3	162.4	162.5	162.6	162.7	162.8	162.9	163.0	163.1	163.2	163.3	163.4	163.5	163.6	163.7	163.8	163.9	164.0	164.1	164.2	164.3	164.4	164.5	164.6	164.7	164.8	164.9	165.0	165.1	165.2	165.3	165.4	165.5	165.6	165.7	165.8	165.9	166.0	166.1	166.2	166.3	166.4	166.5	166.6	166.7	166.8	166.9	167.0	167.1	167.2	167.3	167.4	167.5	167.6	167.7	167.8	167.9	168.0	168.1	168.2	168.3	168.4	168.5	168.6	168.7	168.8	168.9	169.0	169.1	169.2	169.3	169.4	169.5	169.6	169.7	169.8	169.9	170.0	170.1	170.2	170.3	170.4	170.5	170.6	170.7	170.8	170.9	171.0	171.1	171.2	171.3	171.4	171.5	171.6	171.7	171.8	171.9	172.0	172.1	172.2	172.3	172.4	172.5	172.6	172.7	172.8	172.9	173.0	173.1	173.2	173.3	173.4	173.5	173.6	173.7	173.8	173.9	174.0	174.1	174.2	174.3	174.4	174.5	174.6	174.7	174.8	174.9	175.0	175.1	175.2	175.3	175.4	175.5	175.6	175.7	175.8	175.9	176.0	176.1	176.2	176.3	176.4	176.5	176.6	176.7	176.8	176.9	177.0	177.1	177.2	177.3	177.4	177.5	177.6	177.7	177.8	177.9	178.0	178.1	178.2	178.3	178.4	178.5	178.6	178.7	178.8	178.9	179.0	179.1	179.2	179.3	179.4	179.5	179.6	179.7	179.8	179.9	180.0	180.1	180.2	180.3	180.4	180.5	180.6	180.7	180.8	180.9	181.0	181.1	181.2	181.3	181.4	181.5	181.6	181.7	181.8	181.9	182.0	182.1	182.2	182.3	182.4	182.5	182.6	182.7	182.8	182.9	183.0	183.1	183.2	183.3	183.4	183.5	183.6	183.7	183.8	183.9	184.0	184.1	184.2	184.3	184.4	184.5	184.6	184.7	184.8	184.9	185.0	185.1	185.2	185.3	185.4	185.5	185.6	185.7	185.8	185.9	186.0	186.1	186.2	186.3	186.4	186.5	186.6	186.7	186.8	186.9	187.0	187.1	187.2	187.3	187.4	187.5	187.6	187.7	187.8	187.9	188.0	188.1	188.2	188.3	188.4	188.5	188.6	188.7	188.8	188.9	189.0	189.1	189.2	189.3	189.4	189.5	189.6	189.7	189.8	189.9	190.0	190.1	190.2	190.3	190.4	190.5	190.6	190.7	190.8	190.9	191.0	191.1	191.2	191.3	191.4	191.5	191.6	191.7	191.8	191.9	192.0	192.1	192.2	192.3	192.4	192.5	192.6	192.7	192.8	192.9	193.0	193.1	193.2	193.3	193.4	193.5	193.6	193.7	193.8	193.9	194.0	194.1	194.2	194.3	194.4	194.5	194.6</

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(C-131B (T-298) AIRCRAFT										) OMEGA 8.2									
(ENG. R-2800-113M										) TEST 74-001-635									
(GROUND RUNUP										) RUN 01									
(										) AIRCRAFT CODE 028									
(										) OPERATION CODE 02315									
(										) PROFILE VERSION A									
(										) 20 FEB 76									
(										) PAGE F1									
(										) METEOROLOGY:									
(										) TEMP = 59 F									
(										) BAR PRESS = 29.92 IN HG									
(										) REL HUMID = 70 %									
(										) DELTA N = -3.0 DB									
DISTANCE										ANGLE (DEGREES)									
(FEET)										(
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	69.2	73.5	69.4	72.2	72.6	72.0	73.6	72.9	71.7	71.9	72.5	74.0	77.0	75.6	77.6	72.7	73.9	67.5	71.4
250	67.1	71.5	67.4	70.1	70.6	69.3	71.6	70.8	69.6	69.9	70.4	71.9	75.0	73.5	75.5	70.7	71.9	65.4	69.3
315	65.1	69.4	65.3	68.1	68.5	67.9	69.5	68.8	67.5	67.8	68.4	69.9	72.9	71.4	73.4	68.6	69.8	63.3	67.3
400	63.0	67.3	63.2	65.9	66.4	65.8	67.4	66.6	65.4	65.7	66.3	67.8	70.8	69.3	71.3	66.5	67.7	61.2	65.2
500	61.0	65.1	61.0	63.8	64.3	63.6	65.3	64.5	63.2	63.6	64.1	65.6	68.6	67.1	69.1	64.4	65.5	59.1	63.0
630	58.6	62.8	58.8	61.5	62.0	61.4	63.1	62.3	61.0	61.4	61.9	63.4	66.4	64.9	66.9	62.2	63.3	56.9	60.8
800	56.3	60.5	56.4	59.3	59.7	59.0	60.8	59.9	58.6	59.0	59.6	61.1	64.1	62.5	64.6	59.9	61.0	54.6	58.4
1000	53.9	58.1	54.0	56.9	57.4	56.5	58.3	57.5	56.0	56.4	57.2	58.6	61.6	60.1	62.3	57.4	58.6	52.1	55.8
1250	51.1	55.4	51.3	54.4	54.8	53.7	55.5	54.8	53.2	53.6	54.4	56.0	58.9	57.4	59.8	54.8	56.0	49.5	53.1
1600	48.1	52.6	48.4	51.7	52.1	50.6	52.6	52.0	50.2	50.6	51.5	53.2	56.1	54.7	57.2	52.1	53.3	46.7	50.2
2000	45.0	49.6	45.4	49.0	49.3	47.4	49.5	48.8	47.0	47.3	48.5	50.2	53.2	51.9	54.6	49.2	50.5	43.9	47.2
2500	41.4	46.1	41.9	45.8	46.1	43.9	46.1	45.6	43.4	43.7	45.1	46.9	49.9	48.6	51.5	45.9	47.4	40.6	43.9
3150	37.3	42.3	38.0	42.2	42.4	40.0	42.3	41.9	39.5	39.8	41.1	43.1	46.2	45.0	48.0	42.1	43.9	36.9	40.1
4000	32.8	38.0	33.8	38.1	38.3	35.7	38.2	37.9	35.2	35.5	36.9	39.1	42.1	41.0	44.2	38.0	40.0	32.9	35.9
5000	28.1	33.5	29.3	33.8	33.9	31.3	33.9	33.6	30.8	31.1	32.5	34.7	37.7	36.7	39.9	33.5	35.8	28.6	31.5
6300	23.3	28.8	24.7	29.2	29.4	26.7	29.4	29.1	26.3	26.6	27.9	30.2	33.2	32.2	35.5	28.9	31.3	24.1	27.0
8000	20.2	25.2	21.3	25.7	26.0	23.3	25.9	25.4	22.7	23.0	24.4	26.6	29.7	28.6	31.9	25.5	27.7	20.6	23.7
10000	16.9	21.5	17.7	21.9	22.3	19.9	22.2	21.7	19.0	19.5	20.8	23.0	26.0	24.8	28.0	21.9	23.9	16.9	20.1
12500	13.5	17.6	14.0	18.0	18.5	16.4	18.6	17.9	15.4	15.9	17.1	19.2	22.1	20.8	23.9	18.2	19.7	12.9	16.4
16000	10.0	13.6	10.3	13.8	14.4	12.9	14.9	14.0	11.9	12.5	13.5	15.3	18.1	16.6	19.4	14.1	15.3	8.8	12.5
20000	6.5	9.5	6.5	9.3	10.1	9.5	11.3	10.3	8.5	9.2	9.8	11.4	14.0	12.3	14.5	10.0	10.7	4.5	8.5
25000	3.6	5.3	2.8	4.7	5.8	6.2	8.0	6.7	5.2	5.9	6.3	7.5	9.9	8.0	9.3	5.7	6.0	.3	4.6

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
(NOISE SOURCE/SUBJECT:)										(IDENTIFICATION:)									
(G-131B (T-28B) AIRCRAFT)										(OMEGA 8.2)									
(ENG. R-2800-103M)										(TEST 74-004-035)									
(GROUND RUNUP)										(RUN 01)									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT: C-131B (T-298) AIRCRAFT
 ENG. R-2800-103M
 GROUND RUNUP
 IDENTIFICATION: OMEGA 8.2
 TEST 74-004-035
 RUN 01
 AIRCRAFT CODE 028
 OPERATION CODE 02015
 PROFILE VERSION A
 20 FEB 76
 PAGE J1
 METEOROLOGY: TEMP = 59 F
 BAR PRESS = 23.92 IN HG
 REL HUMID = 73 %
 DELTA N = -3.0 DB

ANGLE IN DEGREES	P=PNLT										A=AL										T=ALT										
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	0	10	20	30	40	50	60	70	80	90	100	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

[illegible]

DV-1C **AIRCRAFT**

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 082
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING		PAGE
TAKIOFF 100% RPM	559-567	
APPROACH 97% RPM	568-576	
INTERMEDIATE 97% RPM	577-585	

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PML:
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIP-TO-GROUND PROPAGATION

GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PHLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PHLT, SEL, SELT, EPNL)

13 FEB 76

AEROSPACE MEDICAL RESEARCH AIR FORCE
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

[illegible]

	20	30	40	50	60	70	80	90	MEAN	SD
50	62.6	10.2
63	62.6	10.2
80	68.5	6.7
100	88.1	4.2
125	74.7	4.7
160	62.4	1.8
200	72.1	3.8
250	70.3	5.0
315	84.2	2.5
400	86.1	2.6
500	81.0	3.4
630	76.4	2.6
800	76.2	4.1
1000	71.5	3.1
1250	67.0	1.1
1600	62.8	1.7
2000	61.2	2.7
2500	57.8	2.6
3150	54.7	2.9
4000	50.2	3.6
5000	44.1	3.3
6300	38.4	3.3
8000	33.1	3.8
10000	27.9	4.6

F R E Q U E N C Y

I N H Z

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

OV-10 TAKEOFF POWER 100 X RPM

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

NO. OF RECORDS = 8 IDENT: 6.6-082-103-130276

PNLT = 98.9 PNOB
PNL = 96.2 PNOB
ALT = 86.2 OBA
AL = 85.5 OBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
AIR-TO-GROUND PROPAGATION																								
IDENTIFICATION:																								
OMEGA 6.6																								
A/C CODE: 082																								
OPS CODE: 103																								
PROFILE VER: A																								
13 FEB 76																								
PAGE M1																								
METEOROLOGY:																								
TEMP = 59 F																								
REL HUMID = 70 %																								
DELTA N = 0.0 DB																								
AIRSPEED = 150 KNOTS																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	77	83	102	89	77	86	85	99	101	96	91	91	87	82	79	78	75	73	70	65	63	62	64
250	75	75	81	100	87	75	84	83	97	99	94	89	89	85	80	77	76	73	71	68	63	60	59	60
315	73	73	79	98	85	73	82	81	95	97	92	87	87	83	78	74	73	71	68	66	60	57	56	57
400	71	71	77	96	83	71	80	79	93	94	89	85	85	80	76	72	71	68	66	63	58	54	52	52
500	69	69	75	94	81	69	78	76	90	92	87	83	83	78	74	70	69	66	63	60	55	51	48	48
630	67	67	73	92	79	66	76	74	88	90	85	81	81	76	72	68	66	63	61	57	51	47	44	42
800	65	65	71	90	77	64	74	72	86	88	83	79	78	74	69	65	64	61	58	54	48	43	39	36
1000	63	63	69	88	75	62	72	70	84	86	81	76	76	72	67	63	61	58	55	50	44	38	33	28
1250	61	61	66	86	73	60	70	68	82	84	79	74	74	69	64	60	58	55	51	46	40	33	26	19
1600	59	58	64	84	71	58	68	66	80	82	77	72	72	67	62	57	55	51	47	42	35	27	18	8
2000	56	56	62	82	69	56	66	64	78	80	74	69	69	64	59	54	52	48	43	37	29	20	11	0
2500	54	54	60	80	66	54	64	62	76	77	72	67	66	61	56	51	49	44	38	31	22	11	0	
3150	52	52	58	78	64	52	61	59	73	75	69	64	64	58	53	48	45	39	33	23	14	5		
4000	50	50	56	76	62	50	59	57	71	72	67	62	61	55	49	44	40	34	26	15	5			
5000	48	48	54	74	60	47	57	55	68	70	64	59	57	52	45	39	35	27	19	9				
6300	46	46	52	71	58	45	55	52	66	67	61	55	54	48	41	34	29	20						
8000	44	44	50	69	55	43	52	50	63	64	58	52	50	43	36	28	22	11						
10000	42	42	48	67	53	40	49	47	60	61	54	48	46	38	30	21	13	1						
12500	40	39	45	64	51	38	47	44	57	57	50	44	40	32	23	13	3							
16000	37	37	43	62	48	35	44	41	53	53	46	39	35	25	15									
20000	35	35	40	59	45	32	40	37	50	49	41	33	28	17	5									
25000	33	32	38	57	42	29	37	33	45	44	35	26	20	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (CI).

*** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
*** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	OV-10	TAKEOFF POWER	A	P
250	100 X RPM		A +	* P
315	AIR SPEED = 150 KNOTS			
400	TEMP = 59 F REL HUMID = 70 X		A +	* P
500	DELTA N = 0.0 DB			
	NO. OF RECORDS: 8		A +	* P
	IDENT: 6.6-082-103-130276-A			
			A +	* P
S 630			A +	* P
L 800			A +	* P
N 1000			A +	* P
D 1250			A +	* P
I 1600			A +	* P
S 2000			A +	* P
T 2500			A +	* P
D 3150			A +	* P
I 4000			A +	* P
F 5000			A +	* P
E 6300			A +	* P
E 8000			A +	* P
10000			A +	* P
12500			A +	* P
16000			A +	* P
20000			A +	* P
25000			A +	* P

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB) *

[illegible]

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS, NUMBER OF RECORDS: 8
* BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
OV-10	95.1	97.8	106.4	109.1	93.3	95.9	97.7	OMEGA	6.6
	93.1	95.8	104.3	107.0	92.3	94.9	96.6	A/C CODE: 082	
	91.0	93.7	102.2	104.9	91.2	93.8	95.4	OPS CODE: 103	
	89.0	91.7	100.0	102.8	90.2	92.8	94.3	PROFILE VER: A	
	86.9	89.6	97.8	100.6	89.1	91.7	93.1	13 FEB 76	
	84.3	87.5	95.6	98.3	88.0	90.6	91.8	PAGE M1	
	82.6	85.3	93.2	96.0	86.8	89.4	90.5		
SLANT DISTANCE (FEET)									
200	95.1	97.8	106.4	109.1	93.3	95.9	97.7		
250	93.1	95.8	104.3	107.0	92.3	94.9	96.6		
315	91.0	93.7	102.2	104.9	91.2	93.8	95.4		
400	89.0	91.7	100.0	102.8	90.2	92.8	94.3		
500	86.9	89.6	97.8	100.6	89.1	91.7	93.1		
630	84.3	87.5	95.6	98.3	88.0	90.6	91.8		
800	82.6	85.3	93.2	96.0	86.8	89.4	90.5		
1000	80.4	83.1	90.8	93.6	85.6	88.2	89.1		
1250	78.1	80.8	88.3	91.0	84.3	86.9	87.5		
1600	75.6	78.4	85.6	88.3	82.9	85.5	85.9		
2000	73.2	75.9	82.8	85.6	81.4	84.0	84.1		
2500	70.0	72.7	79.1	81.8	79.2	81.8	81.3		
3150	66.4	69.1	74.9	77.6	76.5	79.2	78.2		
4000	62.4	64.6	70.2	72.4	73.6	75.7	73.9		
5000	58.0	59.6	64.9	66.6	70.2	71.8	69.1		
6300	53.4	54.5	59.5	60.6	66.6	67.7	64.2		
8000	49.9	50.5	55.8	56.4	64.2	64.7	61.0		
10000	46.1	46.1	51.6	51.6	61.4	61.4	57.3		
12500	42.0	42.0	47.2	47.2	58.2	58.2	53.9		
16000	37.5	37.5	42.2	42.2	54.7	54.7	49.8		
20000	32.5	32.5	36.4	36.4	50.7	50.7	45.0		
25000	26.9	26.9	29.1	29.1	46.2	46.2	38.8		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	OV-10	TAKEOFF POWER	100 % RPM	AIRSPEED = 150 KNOTS	TEMP = 59 F	REL HUMID = 70 %	DELTA N = 0.0 DB	NO. OF RECORDS: 8	IDENT: 6.6-082-103-130276-A	NOISE LEVEL IN DB
250	(	(	(	(	(	(	(	(	(	30
315	(	(	(	(	(	(	(	(	(	40
400	(	(	(	(	(	(	(	(	(	50
500	(	(	(	(	(	(	(	(	(	60
630	(	(	(	(	(	(	(	(	(	70
800	(	(	(	(	(	(	(	(	(	80
1000	(	(	(	(	(	(	(	(	(	90
1250	(	(	(	(	(	(	(	(	(	100
1600	(	(	(	(	(	(	(	(	(	110
2000	(	(	(	(	(	(	(	(	(	120
2500	(	(	(	(	(	(	(	(	(	130
3150	(	(	(	(	(	(	(	(	(	140
4000	(	(	(	(	(	(	(	(	(	150
5000	(	(	(	(	(	(	(	(	(	160
6300	(	(	(	(	(	(	(	(	(	170
8000	(	(	(	(	(	(	(	(	(	180
10000	(	(	(	(	(	(	(	(	(	190
12500	(	(	(	(	(	(	(	(	(	200
16000	(	(	(	(	(	(	(	(	(	210
20000	(	(	(	(	(	(	(	(	(	220
25000	(	(	(	(	(	(	(	(	(	230

FREQUENCY	MEAN VALUE OF NORMALIZED 1/3 CB SPL IN DB											MEAN	SD
	10	20	30	40	50	60	70	80					
50	58.1	4.9
63	58.1	4.9
80	63.1	8.4
100	81.4	6.4
125	65.5	2.6
160	62.4	2.8
200	71.5	4.7
250	71.2	3.3
315	82.1	4.7
400	79.0	4.6
500	74.0	3.5
630	74.7	2.7
800	70.1	3.2
1000	66.9	3.1
1250	63.7	2.3
1600	61.2	2.4
2000	58.7	1.9
2500	58.0	2.8
3150	54.6	2.6
4000	50.1	2.7
5000	44.3	2.7
6300	33.9	2.6
8000	33.8	2.6
10000	28.9	2.8

OV-10 APPROACH POWER 97 % RPM
 AIRSPEED = 100 KNOTS TEMP = 59 F
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %
 NO. OF RECORDS = 8 IDENT: 6.6-082-105-130276
 PHLT = 94.7 PND3
 PHL = 91.8 PND8
 ALT = 83.6 DBA
 AL = 80.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																								OMEGA 6.6	
AIRCRAFT:																								A/C CODE: 082	
((OPERATIONS:))																								OPS CODE: 105	
((APPROACH POWER))																								REL HUMID = 70 %	
((97 % RPM))																								13 FEB 76	
(())																								PAGE H2	
((AIRSPEED = 100 KNOTS))																								DELTA N = 0.0 DB	
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	72	72	77	96	80	77	86	85	96	93	89	89	85	82	79	77	75	75	73	70	66	63	63	65	
250	70	70	75	94	78	75	84	83	94	91	87	87	83	80	77	75	73	73	71	68	63	60	60	61	
315	68	68	73	92	76	73	82	81	92	89	85	85	81	78	75	73	71	71	68	65	61	58	56	58	
400	66	66	71	90	74	70	80	79	90	87	82	83	79	76	73	71	68	68	66	63	58	55	53	53	
500	64	64	69	88	72	68	78	77	88	85	80	81	77	74	71	68	66	66	63	60	55	51	49	46	
630	62	62	67	85	70	66	76	75	86	83	78	79	74	71	68	66	64	63	61	57	52	48	45	43	
800	60	60	65	83	67	64	74	73	84	81	76	77	72	69	66	64	61	61	58	54	48	44	40	36	
1000	58	58	63	81	65	62	71	71	82	79	74	75	70	67	64	61	59	58	55	50	44	39	34	29	
1250	56	56	61	79	63	60	69	69	80	77	72	72	68	65	61	59	56	55	51	46	40	34	27	20	
1600	54	54	59	77	61	58	67	67	78	75	70	70	65	62	59	56	53	52	47	42	35	27	19	9	
2000	52	52	57	75	59	56	65	65	76	72	67	68	63	59	56	53	50	48	43	36	29	20	9		
2500	50	50	55	73	57	54	63	63	73	70	65	65	60	57	53	50	46	44	38	31	23	11			
3150	48	48	53	71	55	52	61	60	71	68	62	63	58	54	50	45	42	39	33	24	15	1			
4000	46	46	51	69	53	50	59	58	69	65	60	60	55	50	46	42	38	34	26	15	5				
5000	44	44	49	67	51	47	56	56	66	63	57	57	51	47	42	38	32	28	19	5					
6300	42	42	47	65	49	45	54	53	64	60	54	54	48	43	38	32	26	21	10						
8000	40	40	44	62	46	43	51	51	61	57	51	50	44	39	33	27	19	12							
10000	38	37	42	60	44	40	49	48	58	54	47	46	39	34	27	20	11	2							
12500	35	35	40	58	41	38	45	45	55	50	43	42	34	28	20	11	1								
16000	33	33	37	55	39	35	43	42	51	46	39	37	29	21	12	2									
20000	31	30	35	53	36	32	40	38	48	42	34	31	22	13	2										
25000	28	28	32	50	33	29	36	34	43	37	28	24	14	3											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
(OPERATION:) METEOROLOGY:)										A/C CODE: 082	
(APPROACH POWER) TEMP)										OPS CODE: 105	
(97 % RPM) REL HUMID = 70 %)										PROFILE VER: A	
(AIRSPEED = 100 KNOTS) DELTA N = 9.0 DB)										13 FEB 76	
										PAGE 12	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	95.4	98.3	107.4	110.3	96.2	91.9	101.3				
250	93.7	96.2	105.3	108.1	95.1	97.8	100.1				
315	91.3	94.1	103.1	106.0	94.1	96.8	99.0				
400	89.2	92.1	100.9	103.8	93.0	95.7	97.8				
500	87.1	90.0	98.7	101.6	91.9	94.6	96.6				
630	85.0	87.9	96.5	99.3	90.8	93.5	95.3				
800	82.9	85.7	94.2	97.0	89.7	92.4	94.0				
1000	80.7	83.6	91.8	94.7	88.5	91.2	92.7				
1250	78.5	81.4	89.4	92.3	87.3	90.0	91.3				
1600	76.2	79.1	87.0	89.8	86.0	88.7	89.8				
2000	73.9	76.8	84.5	87.3	84.7	87.4	88.3				
2500	71.6	74.4	81.9	84.7	83.4	86.1	86.7				
3150	69.1	72.0	79.2	82.0	81.9	84.6	85.0				
4000	66.6	68.8	76.4	78.6	80.4	82.5	82.7				
5000	63.9	65.6	73.5	75.2	78.7	80.3	80.2				
6300	61.1	62.2	70.4	71.5	76.9	78.0	77.6				
8000	58.1	59.7	67.2	67.7	74.9	75.4	74.9				
10000	54.9	54.9	63.7	63.7	72.7	72.7	71.9				
12500	51.5	51.5	60.0	60.0	70.3	70.3	69.2				
16000	47.8	47.8	56.0	56.0	67.6	67.6	66.2				
20000	43.8	43.8	51.6	51.6	64.6	64.6	62.8				
25000	39.4	39.4	46.6	46.6	61.2	61.2	58.8				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

OV-10 APPROACH POWER										S-T-E	
200	(	OV-10	97 % RPM	.	.	.	.	.	.	.	.
250	(	AIRSPEED = 100 KNOTS		.	.	.	.	.	.	.	S T E
315	(	TEMP = 59 F REL HUMID = 70 %		.	.	.	.	.	.	.	S T E.
400	(	DELTA N = 0.0 OB		.	.	.	.	.	.	.	S T E.
500	(	NO. OF RECORDS: 8		.	.	.	.	.	.	.	S T E.
	(	IDENT: 6.6-082-105-130275-A		.	.	.	.	.	.	.	S.T.E.
S 630	(	.	.	.	.	.	.	.	.	.	S T E
L A 800	(	.	.	.	.	.	.	.	.	.	S T E
N Y 1000	(	.	.	.	.	.	.	.	.	.	S.T.E.
D 1250	(	.	.	.	.	.	.	.	.	.	S T E
I S 1600	(	.	.	.	.	.	.	.	.	.	S T E
T A 2000	(	.	.	.	.	.	.	.	.	.	S.T.E.
N C 2500	(	.	.	.	.	.	.	.	.	.	S T E
E 3150	(	.	.	.	.	.	.	.	.	.	S X
I N 4000	(	.	.	.	.	.	.	.	.	.	S X
F 5000	(	.	.	.	.	.	.	.	.	.	SX
E 6300	(	.	.	.	.	.	.	.	.	.	SX
T 8000	(	.	.	.	.	.	.	.	.	.	X
10000	(	.	.	.	.	.	.	.	.	.	EX.
12500	(	.	.	.	.	.	.	.	.	.	EX.
16000	(	.	.	.	.	.	.	.	.	.	EX.
20000	(	.	.	.	.	.	.	.	.	.	E.X.
25000	(	.	.	.	.	.	.	.	.	.	E.X.

26 30 40 50 60 70 80 90 100
 NOISE LEVEL IN DB
 AIR TO GROUND
 E = EPNL
 T = SELT
 S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																			
GROUND-TO-GROUND PROPAGATION																					
AIRCRAFT:																					
OV-10																					

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	97 % RPM	TEMP	REL HUMID	DELTA N	DELTA M	DELTA P	IDENTIFICATION:
OV-10									OMEGA 6.6
									A/C CODE: 082
									OPS CODE: 105
									PROFILE VER: A
									13 FEB 76
									PAGE M2
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNJB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	90.4	93.2	102.3	105.2	91.2	93.9	96.2		
250	88.3	91.2	100.2	103.0	90.1	92.8	95.0		
315	86.3	89.1	98.0	100.9	89.1	91.8	93.9		
400	84.2	87.0	95.8	98.7	88.0	90.7	92.7		
500	82.1	85.0	93.6	96.4	86.9	89.6	91.4		
630	80.0	82.8	91.3	94.1	85.8	88.5	90.1		
800	77.8	80.7	88.9	91.7	84.6	87.3	88.7		
1000	75.6	78.4	86.3	89.2	83.4	86.1	87.2		
1250	73.1	75.9	83.3	86.2	81.9	84.6	85.2		
1600	70.5	73.4	80.2	83.1	80.3	83.0	83.1		
2000	67.9	70.7	77.4	80.2	78.7	81.4	81.2		
2500	64.7	67.6	73.6	76.4	76.5	79.2	78.4		
3150	61.3	64.1	69.4	72.2	74.1	76.7	75.2		
4000	57.4	59.7	64.6	66.9	71.2	73.3	70.9		
5000	53.0	54.7	59.6	61.3	67.8	69.4	66.3		
6300	48.5	49.6	54.6	55.7	64.3	65.4	61.8		
8000	44.9	45.5	50.4	51.0	61.7	62.3	58.1		
10000	41.1	41.1	45.5	45.5	58.9	58.9	53.7		
12500	36.9	36.9	39.9	39.9	55.6	55.6	49.0		
16000	32.2	32.2	34.2	34.2	52.0	52.0	44.4		
20000	27.1	27.1	28.0	28.0	47.9	47.9	39.2		
25000	21.6	21.6	19.3	19.3	43.4	43.4	31.5		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	OV-10	APPROACH POWER	S-T-E
250	(	97 % RPM	.	S T E
315	(	AIRSPED = 100 KNOTS	.	S T E
400	(	TEMP = 59 F REL HUMID = 70 %	.	S T E
500	(	DELTA N = 0.0 DB	.	S T E
630	(	NO. OF RECORDS: 8	.	S T E
800	(	IDENT: 6.6-082-105-130276-A	.	S T E
1000	(	.	.	S T E
1250	(	.	.	S T E
1500	(	.	.	S T E
1750	(	.	.	S T E
2000	(	.	.	S T E
2250	(	.	.	S T E
2500	(	.	.	S T E
2750	(	.	.	S T E
3000	(	.	.	S T E
3250	(	.	.	S T E
3500	(	.	.	S T E
3750	(	.	.	S T E
4000	(	.	.	S T E
4250	(	.	.	S T E
4500	(	.	.	S T E
4750	(	.	.	S T E
5000	(	.	.	S T E
5250	(	.	.	S T E
5500	(	.	.	S T E
5750	(	.	.	S T E
6000	(	.	.	S T E
6250	(	.	.	S T E
6500	(	.	.	S T E
6750	(	.	.	S T E
7000	(	.	.	S T E
7250	(	.	.	S T E
7500	(	.	.	S T E
7750	(	.	.	S T E
8000	(	.	.	S T E
8250	(	.	.	S T E
8500	(	.	.	S T E
8750	(	.	.	S T E
9000	(	.	.	S T E
9250	(	.	.	S T E
9500	(	.	.	S T E
9750	(	.	.	S T E
10000	(	.	.	S T E
10250	(	.	.	S T E
10500	(	.	.	S T E
10750	(	.	.	S T E
11000	(	.	.	S T E
11250	(	.	.	S T E
11500	(	.	.	S T E
11750	(	.	.	S T E
12000	(	.	.	S T E
12250	(	.	.	S T E
12500	(	.	.	S T E
12750	(	.	.	S T E
13000	(	.	.	S T E
13250	(	.	.	S T E
13500	(	.	.	S T E
13750	(	.	.	S T E
14000	(	.	.	S T E
14250	(	.	.	S T E
14500	(	.	.	S T E
14750	(	.	.	S T E
15000	(	.	.	S T E
15250	(	.	.	S T E
15500	(	.	.	S T E
15750	(	.	.	S T E
16000	(	.	.	S T E
16250	(	.	.	S T E
16500	(	.	.	S T E
16750	(	.	.	S T E
17000	(	.	.	S T E
17250	(	.	.	S T E
17500	(	.	.	S T E
17750	(	.	.	S T E
18000	(	.	.	S T E
18250	(	.	.	S T E
18500	(	.	.	S T E
18750	(	.	.	S T E
19000	(	.	.	S T E
19250	(	.	.	S T E
19500	(	.	.	S T E
19750	(	.	.	S T E
20000	(	.	.	S T E
20250	(	.	.	S T E
20500	(	.	.	S T E
20750	(	.	.	S T E
21000	(	.	.	S T E
21250	(	.	.	S T E
21500	(	.	.	S T E
21750	(	.	.	S T E
22000	(	.	.	S T E
22250	(	.	.	S T E
22500	(	.	.	S T E
22750	(	.	.	S T E
23000	(	.	.	S T E
23250	(	.	.	S T E
23500	(	.	.	S T E
23750	(	.	.	S T E
24000	(	.	.	S T E
24250	(	.	.	S T E
24500	(	.	.	S T E
24750	(	.	.	S T E
25000	(	.	.	S T E

	10	20	30	40	50	60	70	80	MEAN	SD
50	66.8	13.6
53	X.	.	68.8	13.6
80	X.	.	68.7	11.2
100	X.	79.0	3.3
125	69.3	3.2
160	X.	.	.	59.0	2.6
200	70.1	5.5
250	X.	.	66.6	2.9
315	81.7	3.1
400	X.	77.7	3.5
500	74.2	3.1
630	X.	74.4	3.2
800	X.	.	72.3	3.4
1000	67.1	2.9
1250	64.2	3.2
1600	X.	.	.	59.6	1.4
2000	57.0	1.6
2500	X.	.	.	54.1	2.0
3150	X.	.	.	.	50.4	2.6
4000	45.3	3.3
5000	.	.	.	X.	.	.	.	.	39.2	3.5
6300	.	.	X.	.	.	.	.	.	33.5	3.8
8000	.	X.	.	.	.	.	.	.	28.2	4.1
10000	23.1	4.5

FREQUENCY

577

OV-10 INTERMEDIATE POWER 97 % RPM

AIRSPEED = 140 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

NO. OF RECORDS = 8

IDENT: 6.6-082-106-130276

PNLT = 92.8 PNOB
PNL = 91.2 PNOB
ALT = 82.0 DBA
AL = 80.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																	
AIR-TO-GROUND PROPAGATION																			
AIRCRAFT:																			
((OPERATION:)																			
((INTERMEDIATE POWER)																			
((97 % RPM)																			
((AIRSPEED = 140 KNOTS)																			
((DELTA N = 0.0 DB)																			
		METEOROLOGY:																	
		TEMP																	
		REL HUMID = 70 %																	
		A/C CODE: 082																	
		OPS CODE: 106																	
		PROFILE VER: A																	
		13 FEB 76																	
		PAGE M3																	
</																			

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
(OPERATION:) METEOROLOGY:										A/C CODE: 082	
(INTERMEDIATE POWER) TEMP										OPS CODE: 106	
(97 % RPM) REL HUMID = 70 %										PROFILE VER: A	
() DELTA N = 0.0 DB										13 FEB 76	
(AIRSPEED = 140 KNOTS)										PAGE 13	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	95.1	96.7	106.6	108.2	94.1	96.2	98.3				
250	93.1	94.7	104.5	106.1	93.0	95.2	97.2				
315	91.0	92.6	102.4	104.0	92.0	94.1	96.0				
400	88.9	90.5	100.2	101.8	90.9	93.0	94.8				
500	86.8	88.4	98.0	99.6	89.8	92.0	93.6				
630	84.7	86.3	95.7	97.4	88.7	90.8	92.4				
800	82.6	84.2	93.5	95.1	87.6	89.7	91.1				
1000	80.4	82.0	91.2	92.8	86.4	88.5	89.8				
1250	78.2	79.8	88.8	90.4	85.2	87.3	88.4				
1600	75.9	77.6	86.3	88.0	83.9	86.1	87.0				
2000	73.6	75.2	83.9	85.5	82.6	84.7	85.5				
2500	71.2	72.8	81.3	82.9	81.2	83.3	83.9				
3150	68.7	70.4	78.6	80.2	79.7	81.9	82.3				
4000	66.1	67.4	75.9	77.1	78.1	79.8	80.1				
5000	63.4	64.4	73.0	73.9	76.4	77.7	77.7				
6300	60.6	61.2	69.9	70.6	74.6	75.4	75.3				
8000	57.5	57.9	66.6	67.0	72.5	72.9	72.6				
13000	54.3	54.3	63.2	63.2	70.3	70.3	69.7				
12500	50.8	50.8	59.4	59.4	67.8	67.8	66.3				
16000	47.0	47.0	55.4	55.4	65.0	65.0	63.9				
20000	42.9	42.9	50.9	50.9	61.9	61.9	60.4				
25000	38.5	38.5	45.5	45.5	58.4	58.4	56.1				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

INTERMEDIATE POWER									
200	OV-10	97 % RPM	AIRSPEED = 140 KNOTS	TEMP = 59 F	REL HUMID = 70 %	DELTA N = 0.0 DB	NO. OF RECORDS: 8	IDENT: 6.6-082-106-130276-A	
250	(((((((((
315	(((((((((
400	(((((((((
500	(((((((((
630	(((((((((
800	(((((((((
1000	(((((((((
1250	(((((((((
1600	(((((((((
2000	(((((((((
2500	(((((((((
3150	(((((((((
4000	(((((((((
5000	(((((((((
6300	(((((((((
8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((
AIR TO GROUND									
P = PNLT									
* = PNL									
+ = ALT									
A = AL									
NOISE LEVEL IN DB									
30	40	50	60	70	80	90	100	110	

[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB) *

[illegible]

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:											
(OPERATION:)											
(INTERMEDIATE POWER)											
(97 % RPM)											
()											
()											
()											
(AIRSPEED = 140 KNOTS)											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()											
()										</	

INTERMEDIATE POWER									
200	OV-10	97 % RPM	AIRSPEED = 140 KNOTS	TEMP = 59 F	REL HUMID = 70 %	DELTA N = 0.0 DB	NO. OF RECORDS: 8	IDENT: 6.6-082-106-130276-A	
250	(((((((((
315	(((((((((
400	(((((((((
500	(((((((((
630	(((((((((
800	(((((((((
1000	(((((((((
1250	(((((((((
1500	(((((((((
2000	(((((((((
2500	(((((((((
3250	(((((((((
4000	(((((((((
5000	(((((((((
6300	(((((((((
8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((

OV-10 INTERMEDIATE POWER

97 % RPM

AIRSPED = 140 KNOTS

TEMP = 59 F REL HUMID = 70 %

DELTA N = 0.0 DB

NO. OF RECORDS: 8

IDENT: 6.6-082-105-130276-A

	20	30	40	50	60	70	80	90	100
250	(((((((((
315	(((((((((
400	(((((((((
500	(((((((((
S 630	(((((((((
L 800	(((((((((
N 1000	(((((((((
D 1250	(((((((((
I 1600	(((((((((
S 2000	(((((((((
A 2500	(((((((((
N 3150	(((((((((
C 4000	(((((((((
E 5000	(((((((((
E 6300	(((((((((
T 8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((

GROUND TO GROUND

E = EPNL

T = SELT

S = SEL

NOISE LEVEL IN DB

[illegible]

NOISE PRODUCED ON THE GROUND BY

OV-10A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-026
AIRCRAFT CODE: 082
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

PAGE

LOCKED PROPS 89 RPM, 600 FT-LBS	587-592
TAXI 70 RPM, 600 FT-LBS	593-598
MILITARY 101 RPM, 1900 FT-LBS	599-604

FOR EACH POWER SETTING. THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

31 MAR 76

AIRIGHT-PATIENTS MEDICAL RESEARCH LABORATORY

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
OV-10A AIRCRAFT																		
ENG. 176-G-16 12																		
GROUND RUNUP																		
OPERATION:																		
LOCKED PROPS, 89% RPM																		
SINGLE ENGINE																		
METEOROLOGY:																		
TEMP = 59 F																		
BAR PRESS =29.92 IN HG																		
REL HUMID = 70 %																		
DELTA N = -3.0 DB																		
IDENTIFICATION:																		
OMEGA 8.2																		
TEST 74-004-026																		
RUN 01																		
AIRCRAFT CODE 082																		
OPERATION CODE 02028																		
PROFILE VERSION A																		
31 MAR 76																		
PAGE C1																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	65	62	58	62	59	60	60	60	58	59	65	70	67	60	60	60	61	65
63	66	65	63	64	63	66	65	65	62	64	67	76	67	64	64	63	64	66
80	78	80	78	79	80	80	81	82	81	79	77	74	74	77	76	77	77	76
100	78	79	78	80	80	81	82	83	84	85	82	79	76	77	79	79	79	76
125	68	69	67	68	68	67	67	67	67	68	68	74	75	70	69	69	68	67
160	84	84	82	81	82	78	79	80	82	83	81	80	80	80	78	79	80	79
200	81	80	80	80	80	77	79	82	83	85	84	81	81	80	78	79	80	79
250	84	84	83	83	83	82	81	79	81	80	81	79	78	80	82	83	77	77
315	86	85	84	84	85	81	80	80	78	76	77	78	82	83	84	82	80	80
400	85	85	83	83	84	80	81	82	82	80	80	80	81	85	86	83	82	81
500	84	86	84	84	84	80	80	79	79	81	81	81	82	85	86	82	82	79
630	85	86	85	86	86	83	81	81	80	82	84	83	83	83	86	82	82	81
800	84	84	84	84	84	80	79	78	80	80	84	84	80	84	84	80	80	78
1000	83	85	84	83	84	79	80	79	80	80	80	82	79	82	82	81	80	79
1250	83	85	83	83	82	77	77	79	76	75	76	82	79	80	81	80	80	73
1600	82	83	82	81	81	74	77	79	74	74	75	78	80	79	78	79	79	78
2000	82	83	82	81	80	75	75	78	75	76	77	77	76	76	76	76	76	76
2500	80	80	80	80	79	73	75	76	74	77	75	78	77	75	75	75	75	75
3150	79	78	79	79	77	73	75	74	76	75	76	77	74	75	74	75	75	75
4000	78	78	78	78	76	71	72	75	73	76	73	76	72	72	73	74	73	74
5000	72	72	73	72	71	65	69	68	70	69	70	70	67	68	67	67	68	68
6300	67	66	68	67	67	61	64	62	66	66	65	67	63	63	63	63	64	64
8000	63	63	67	65	62	56	58	60	58	61	63	62	59	59	59	59	60	60
10000	68	73	75	72	63	59	63	60	59	62	62	62	59	59	59	58	58	57
OVERALL	95	96	95	95	95	91	91	92	92	93	92	92	92	92	94	92	92	91

TABLE 1 PERCEIVED NOISE LEVEL (PNL)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE SUBJECT:																
OV-10A AIRCRAFT																
ENG. T. 4-G-1, 12																
GROUND RUNUP																
IDENTIFICATION:																
) OMEGA 8.2																
) TEST 74-004-026																
) RUN 91																
) AIRCRAFT CODE 082																
) OPERATION CODE 02029																
) PROFILE VERSION A																
) 31 MAR 76																
) PAGE 01																
) METEOROLOGY:																
) TEMP = 59 F																
) BAR PRESS = 29.92 IN HG																
) REL HUMID = 70 %																
) DELTA N = -3.0 DB																
) ANGLE (DEGREES)																
) DISTANCE (FEET)																
) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																
200	107.2	117.7	137.3	157.1	176.3	195.1	213.4	231.1	248.2	264.8	280.9	296.5	311.6	326.2	340.4	354.2
250	105.6	115.5	134.9	154.1	172.8	191.0	208.7	225.9	242.6	258.8	274.5	289.7	304.4	318.6	332.3	345.6
315	102.8	112.3	130.8	149.2	166.5	183.6	200.3	216.5	232.2	247.4	262.1	276.3	290.0	303.2	315.9	328.2
400	100.4	109.5	127.5	145.2	161.8	178.3	194.7	210.9	226.6	241.8	256.5	270.7	284.4	297.6	310.3	322.6
500	98.1	106.6	124.1	141.2	157.3	173.3	189.2	204.9	220.4	235.5	250.1	264.2	277.8	290.9	303.5	315.7
630	95.8	103.8	120.8	137.4	153.1	168.6	183.9	199.0	213.9	228.5	242.7	256.4	269.6	282.2	294.3	305.9
800	92.9	100.4	116.8	132.8	148.1	163.3	178.2	192.9	207.4	221.7	235.8	249.5	262.7	275.4	287.6	299.3
1000	89.2	96.2	111.9	127.1	141.9	156.4	170.7	184.8	198.7	212.4	225.9	239.2	252.3	265.0	277.2	288.9
1250	87.2	93.8	109.1	123.8	138.1	152.1	165.8	179.3	192.6	205.8	218.9	231.9	244.7	257.2	269.4	281.1
1500	84.1	90.3	105.2	119.5	133.3	146.8	160.1	173.2	186.1	198.8	211.3	223.8	236.1	248.2	260.1	271.7
2000	80.7	86.5	100.9	114.8	128.2	141.3	154.2	166.9	179.4	191.8	204.1	216.2	228.1	239.8	251.3	262.7
2500	77.6	83.0	96.9	110.4	123.4	136.1	148.6	160.9	173.0	184.9	196.6	208.1	219.4	230.6	241.7	252.7
3150	73.1	78.3	91.9	105.0	117.6	130.0	142.2	154.2	166.0	177.6	189.0	200.3	211.4	222.4	233.2	243.9
4000	68.9	73.8	87.1	100.0	112.3	124.3	136.1	147.7	159.1	170.3	181.4	192.4	203.2	213.9	224.4	234.8
5000	64.1	68.7	81.6	94.2	106.3	118.1	129.6	140.9	152.0	163.0	173.8	184.4	194.9	205.3	215.6	225.8
6300	59.0	63.4	75.9	88.1	99.8	111.2	122.4	133.4	144.2	154.8	165.2	175.5	185.7	195.8	205.8	215.7
8000	54.7	58.7	70.8	82.6	94.1	105.3	116.3	127.0	137.5	147.8	157.9	167.9	177.7	187.4	196.9	206.3
10000	49.8	53.4	65.1	76.5	87.6	98.4	108.9	119.2	129.3	139.2	148.9	158.4	167.7	176.9	186.0	194.9
12500	47.8	51.1	62.4	73.5	84.4	95.0	105.4	115.6	125.6	135.4	145.0	154.5	163.8	172.9	181.9	190.8
15000	45.6	48.6	59.6	70.4	81.1	91.6	101.9	112.1	122.1	131.9	141.6	151.1	160.4	169.5	178.5	187.4
20000	43.3	46.1	56.8	67.3	77.6	87.8	97.8	107.7	117.4	126.9	136.3	145.6	154.8	163.8	172.7	181.5
25000	41.0	43.6	54.0	64.3	74.4	84.4	94.3	104.1	113.7	123.1	132.4	141.5	150.5	159.4	168.2	176.9

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(OV-10A AIRCRAFT)										TEMP = 59 F									
(ENG. T76-G-10,12)										BAR PRESS =29.92 IN HG									
(GROUND RUNUP)										REL HUMID = 70 %									
()										DELTA N = -3.0 DB									
()										PAGE E1									
IDENTIFICATIONS:																			
) OMEGA 8.2																			
) TEST 74-004-026																			
) RUN 01																			
) AIRCRAFT CODE 082																			
) OPERATION CODE 02028																			
) PROFILE VERSION A																			
) 31 MAR 76																			
) PAGE E1																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.7	109.9	108.9	108.7	108.3	102.9	103.8	105.2	104.4	106.0	104.8	105.3	105.0	103.4	104.9	105.2	104.6	104.7	104.0
250	108.5	107.7	106.7	106.5	106.1	100.7	101.6	103.0	102.2	103.8	102.6	103.1	102.7	101.2	102.6	103.1	102.4	102.5	101.8
315	104.3	105.5	104.4	104.2	103.8	98.5	99.4	100.8	99.9	101.5	100.3	100.9	100.4	99.0	100.4	100.9	100.1	100.2	99.5
400	102.0	103.2	102.1	101.9	101.5	96.3	97.0	98.4	97.5	99.1	97.9	98.5	98.0	96.7	98.1	98.7	97.7	97.9	97.1
500	99.6	100.8	99.7	99.5	99.1	94.0	94.0	96.0	95.1	96.7	95.5	96.1	95.6	94.4	95.8	96.3	95.3	95.4	94.7
630	97.1	98.3	97.2	96.9	96.5	91.5	92.1	93.4	92.5	94.1	92.9	93.5	92.9	91.9	93.4	94.0	92.7	92.8	92.1
800	94.5	95.7	94.5	94.2	93.9	89.0	89.4	90.7	89.7	91.4	90.4	90.9	90.2	89.3	90.9	91.5	90.0	90.3	89.3
1000	91.7	92.9	91.7	91.4	91.1	86.4	86.6	87.9	87.1	88.5	87.7	88.0	87.3	86.0	88.3	88.9	87.3	87.6	86.5
1250	88.8	90.0	88.8	88.3	88.2	83.7	83.5	84.9	84.3	85.5	84.9	85.0	84.3	83.7	85.6	86.2	84.4	84.7	83.6
1600	85.6	86.9	85.6	85.1	85.3	80.7	80.5	81.8	81.4	82.2	81.9	81.9	81.1	80.7	82.8	83.4	81.5	81.6	80.5
2000	82.3	83.5	82.2	82.0	82.2	77.7	77.5	78.5	78.3	78.9	78.8	78.8	78.0	77.4	79.8	80.4	78.5	78.3	77.3
2500	78.5	79.9	78.6	78.7	78.9	74.4	74.0	74.8	74.5	75.2	75.5	75.4	74.6	73.8	76.5	77.2	74.7	74.7	73.8
3150	74.6	76.2	74.9	75.0	75.3	70.8	70.3	71.1	70.2	71.4	71.8	71.8	70.9	70.2	72.6	73.4	70.9	71.0	70.1
4000	70.1	71.6	70.4	70.5	70.7	66.3	65.8	66.4	65.5	66.7	67.2	67.4	66.6	66.0	68.2	69.0	66.5	66.4	65.6
5000	65.0	66.4	65.3	65.4	65.5	61.2	60.7	61.3	60.3	61.4	62.2	62.4	62.1	61.2	63.2	64.1	61.5	61.4	60.5
6300	59.6	60.9	59.9	60.0	60.1	55.9	55.3	55.8	54.8	55.8	56.8	57.2	57.1	56.1	58.0	58.9	56.2	56.0	55.2
8000	55.0	56.2	55.3	55.3	55.5	51.2	50.3	50.8	49.8	51.1	52.0	52.5	52.5	51.7	53.7	54.4	51.4	51.3	50.3
10000	49.8	50.9	49.9	50.1	50.2	45.9	44.6	45.3	44.0	45.4	46.7	47.3	47.3	46.3	48.8	49.4	45.9	45.0	44.8
12500	43.8	45.0	44.1	44.3	44.4	40.0	38.8	38.8	38.0	39.1	40.7	41.1	41.0	40.7	43.4	44.3	40.2	39.9	38.9
16000	37.8	38.8	37.4	37.7	37.7	33.2	31.7	31.8	30.9	32.0	33.6	33.9	34.4	34.0	37.2	38.1	33.6	33.4	31.6
20000	33.3	34.5	33.1	33.1	33.3	24.4	22.9	22.9	20.8	24.0	25.8	26.1	25.5	25.8	30.0	31.2	25.1	24.9	21.2
25000	19.0	21.0	18.8	18.9	19.1	16.7	8.3	7.0	8.4	11.5	12.3	12.2	12.5	13.5	19.8	21.4	12.8	12.5	7.1

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
(NOISE SOURCE/SUBJECT: () () OV-10A AIRCRAFT () () ENG. 176-G-16, 12 () () GROUND RUNUP ()																				
(OPERATION: () () LOCKED PROPS, 89% RPM () () SINGLE ENGINE ()																				
(METEOROLOGY: () () TEMP = 53 F () () BAR PRESS = 29.92 IN HG () () REL HUMID = 70 % () () DELTA N = -3.0 DB ()																				
(IDENTIFICATION: () () OMEGA 8.2 () () TEST 74-004-026 () () RUN 01 () () AIRCRAFT CODE 082 () () OPERATION CODE J2328 () () PROFILE VERSION A () () 31 MAR 76 () () PAGE F1 ()																				
(DISTANCE (FEET) ANGLE (DEGREES)																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
(200	95.0	95.9	95.2	94.8	94.6	90.1	90.0	91.0	89.8	90.9	90.8	92.1	92.8	91.5	92.9	93.1	91.6	91.4	90.5	
(250	92.9	93.8	93.1	92.7	92.5	88.0	87.9	88.9	87.7	88.8	88.7	89.9	90.7	89.4	90.9	91.3	89.5	89.3	88.4	
(315	90.6	91.6	90.9	90.6	90.4	85.9	85.8	86.8	85.6	86.6	86.6	87.8	88.5	87.3	88.7	89.2	87.4	87.2	86.3	
(400	88.6	89.4	88.7	88.4	88.2	83.7	83.6	84.6	83.4	84.4	84.4	85.6	86.3	85.1	86.6	87.1	85.2	85.0	84.1	
(500	85.4	87.2	86.5	86.2	86.0	81.6	81.4	82.3	81.2	82.2	82.2	83.4	84.1	82.9	84.4	84.9	83.0	82.8	81.9	
(630	84.1	85.9	84.2	83.9	83.7	79.3	79.2	80.1	78.9	79.9	79.9	81.1	81.8	80.7	82.2	82.7	80.8	80.6	79.5	
(800	81.7	82.6	81.8	81.5	81.4	77.1	76.9	77.7	76.9	77.5	77.5	78.6	79.5	78.4	80.0	80.5	78.5	78.2	77.2	
(1000	79.3	80.2	79.4	79.1	79.1	74.7	74.5	75.3	74.2	75.1	75.2	76.4	77.1	76.0	77.6	78.2	76.1	75.9	74.8	
(1250	76.8	77.8	76.9	76.6	76.6	72.3	72.0	72.8	71.7	72.5	72.7	73.9	74.6	73.5	75.2	75.8	73.6	73.4	72.3	
(1500	74.2	75.2	74.3	74.1	74.0	69.3	69.4	70.2	69.1	69.9	70.2	71.4	72.1	71.0	72.7	73.3	71.0	70.8	69.7	
(2000	71.5	72.5	71.6	71.4	71.4	67.1	66.8	67.4	66.4	67.3	67.6	68.7	69.4	68.3	70.1	70.8	68.3	68.1	67.0	
(2500	68.5	69.6	68.6	68.5	68.5	64.3	63.9	64.4	63.4	64.3	64.7	65.9	66.6	65.4	67.3	67.9	65.4	65.2	64.0	
(3150	65.2	66.4	65.5	65.3	65.4	61.2	60.7	61.2	60.1	61.1	61.7	62.8	63.5	62.2	64.1	64.8	62.2	62.0	60.8	
(4000	61.7	62.8	61.9	61.8	61.8	57.7	57.1	57.6	56.4	57.5	58.2	59.4	60.1	58.7	60.6	61.2	58.6	58.4	57.2	
(5000	57.6	58.8	57.9	57.8	57.8	53.7	53.1	53.6	52.4	53.5	54.2	55.4	56.1	54.6	56.6	57.2	54.5	54.4	53.1	
(6300	53.2	54.4	53.6	53.4	53.5	49.4	48.8	49.3	48.0	49.2	49.9	51.2	51.9	50.3	52.3	52.9	50.2	50.0	48.8	
(8000	49.2	50.3	49.5	49.4	49.5	45.5	44.8	45.2	44.1	45.3	46.0	47.2	47.8	46.3	48.3	49.1	46.1	46.0	44.7	
(10000	44.8	45.9	45.0	45.1	45.2	41.3	40.5	40.8	39.8	41.0	41.8	42.9	43.4	41.9	44.1	44.9	41.8	41.6	40.3	
(12500	40.0	41.0	40.2	40.3	40.4	36.8	35.8	35.9	35.1	36.4	37.1	38.1	38.4	37.2	39.4	40.3	37.0	36.8	35.6	
(15000	34.7	35.8	34.9	35.0	35.2	31.4	30.7	30.7	30.1	31.3	32.0	32.8	33.0	32.1	34.3	35.3	31.8	31.5	30.4	
(20000	29.0	30.0	29.0	29.2	29.4	25.7	25.0	24.9	24.5	25.7	26.2	26.9	27.0	25.4	28.6	29.7	26.1	25.8	24.7	
(25000	22.8	23.6	22.5	22.8	23.0	19.4	18.6	18.7	18.0	19.5	19.9	20.3	20.3	20.2	22.4	23.5	19.9	19.6	18.4	

TABLE: TONE-CORRECTED, A-WEIGHTED OVER-RAIL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
OV-10A AIRCRAFT																			
CN5, 176-G-10, 12																			
GROUND RUNUP																			
OPERATIONS:																			
LOCKED PROPS, 89% RPM																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-026																			
RUN 01																			
AIRCRAFT CODE 082																			
OPERATION CODE J20A																			
PROFILE VERSION A																			
31 MAR 76																			
PAGE 61																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.5	93.1	90.8	88.5	86.5	84.5	82.5	80.5	78.5	76.5	74.5	72.5	70.5	68.5	66.5	64.5	62.5	60.5	58.5
250	94.4	91.0	88.7	86.4	84.4	82.4	80.4	78.4	76.4	74.4	72.4	70.4	68.4	66.4	64.4	62.4	60.4	58.4	56.4
315	92.3	88.9	86.6	84.3	82.3	80.3	78.3	76.3	74.3	72.3	70.3	68.3	66.3	64.3	62.3	60.3	58.3	56.3	54.3
400	90.1	86.7	84.4	82.1	80.1	78.1	76.1	74.1	72.1	70.1	68.1	66.1	64.1	62.1	60.1	58.1	56.1	54.1	52.1
500	87.9	84.5	82.2	79.9	77.9	75.9	73.9	71.9	69.9	67.9	65.9	63.9	61.9	59.9	57.9	55.9	53.9	51.9	49.9
630	85.6	82.2	79.9	77.6	75.6	73.6	71.6	69.6	67.6	65.6	63.6	61.6	59.6	57.6	55.6	53.6	51.6	49.6	47.6
800	83.3	79.9	77.6	75.3	73.3	71.3	69.3	67.3	65.3	63.3	61.3	59.3	57.3	55.3	53.3	51.3	49.3	47.3	45.3
1000	80.9	77.5	75.2	72.9	70.9	68.9	66.9	64.9	62.9	60.9	58.9	56.9	54.9	52.9	50.9	48.9	46.9	44.9	42.9
1250	78.3	74.9	72.6	70.3	68.3	66.3	64.3	62.3	60.3	58.3	56.3	54.3	52.3	50.3	48.3	46.3	44.3	42.3	40.3
1600	75.7	72.3	70.0	67.7	65.7	63.7	61.7	59.7	57.7	55.7	53.7	51.7	49.7	47.7	45.7	43.7	41.7	39.7	37.7
2000	73.0	69.6	67.3	65.0	63.0	61.0	59.0	57.0	55.0	53.0	51.0	49.0	47.0	45.0	43.0	41.0	39.0	37.0	35.0
2500	70.1	66.7	64.4	62.1	60.1	58.1	56.1	54.1	52.1	50.1	48.1	46.1	44.1	42.1	40.1	38.1	36.1	34.1	32.1
3150	67.2	63.8	61.5	59.2	57.2	55.2	53.2	51.2	49.2	47.2	45.2	43.2	41.2	39.2	37.2	35.2	33.2	31.2	29.2
4000	64.3	60.9	58.6	56.3	54.3	52.3	50.3	48.3	46.3	44.3	42.3	40.3	38.3	36.3	34.3	32.3	30.3	28.3	26.3
5000	61.4	58.0	55.7	53.4	51.4	49.4	47.4	45.4	43.4	41.4	39.4	37.4	35.4	33.4	31.4	29.4	27.4	25.4	23.4
6300	58.5	55.1	52.8	50.5	48.5	46.5	44.5	42.5	40.5	38.5	36.5	34.5	32.5	30.5	28.5	26.5	24.5	22.5	20.5
8000	55.6	52.2	49.9	47.6	45.6	43.6	41.6	39.6	37.6	35.6	33.6	31.6	29.6	27.6	25.6	23.6	21.6	19.6	17.6
10000	52.7	49.3	47.0	44.7	42.7	40.7	38.7	36.7	34.7	32.7	30.7	28.7	26.7	24.7	22.7	20.7	18.7	16.7	14.7
12500	49.8	46.4	44.1	41.8	39.8	37.8	35.8	33.8	31.8	29.8	27.8	25.8	23.8	21.8	19.8	17.8	15.8	13.8	11.8
16000	47.0	43.6	41.3	39.0	37.0	35.0	33.0	31.0	29.0	27.0	25.0	23.0	21.0	19.0	17.0	15.0	13.0	11.0	9.0
20000	44.1	40.7	38.4	36.1	34.1	32.1	30.1	28.1	26.1	24.1	22.1	20.1	18.1	16.1	14.1	12.1	10.1	8.1	6.1
25000	41.2	37.8	35.5	33.2	31.2	29.2	27.2	25.2	23.2	21.2	19.2	17.2	15.2	13.2	11.2	9.2	7.2	5.2	3.2

TABLE 1. NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

3 SOURCE/SUBJECT:
OV-10A AIRCRAFT
EN3. 176-G-10,12
GROUND RUNUP

OPERATION;
LOCKED PROPS, 60% RPM
SINGLE ENGINE

```

) METEOROLOGY:
)
) TEMP = 59 F
) BAR PRESS = 29.92 IN
) REL HUMID = 70 %
) DELTA N = -3.0 DB

```

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-026

```

) RUN 01
) AIRCRAFT CODE 082
) OPERATION CODE 02028
) PROFILE VERSION A
) 31 MAR 76
) PAGE 11

```

P = PNL

ASAL

TRAIT

	10	20	30	40	50	60	70	80	90	100	110
0
10AT.	.	.P.
20AT	P
30AT	P
40AT.	.	.P.
50AT	.	P
60AT.	.	.
70AT	.	P
80AT.	.	P
90A.T.	.	P.
100AT	.	P
110AT	.	P
120	X.	.	P.
130	X.	.	P
140AT	.	P
150AT.	.	P.
160AT	.	P
170	A.T	.	P
180A.T.	.	P.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 082																			
OV-10A AIRCRAFT (TAXI POWER, 70% RPM) TEMP = 59 F) OPERATION CODE 02015																			
ENG. 176-G-1J,12 (SINGLE ENGINE) BAR PRESS =29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP (REL HUMID = 70 %) 31 MAR 76																			
(DELTA N = -3.0 DB) PAGE C2																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	69	69	62	61	58	58	59	62	65	66	64	65	63	64	63	62	64	63	43
63	70	70	78	79	74	73	74	74	83	87	86	88	86	86	79	82	74	71	51
80	74	75	75	77	72	77	72	72	81	85	85	86	84	85	77	80	72	69	49
100	63	62	62	63	62	62	63	65	67	68	67	68	67	67	66	66	66	63	43
125	69	73	70	71	66	65	67	71	73	72	73	71	72	70	72	69	64	61	41
160	63	71	70	68	68	68	70	71	73	73	74	73	74	72	72	71	68	62	42
200	73	71	73	73	67	65	69	67	68	66	69	71	69	69	68	71	66	62	42
250	67	67	68	68	67	65	64	63	66	63	64	68	68	68	68	68	62	56	36
315	78	79	77	76	73	69	70	70	70	67	66	71	77	80	79	79	70	62	42
400	75	76	75	71	71	70	70	71	70	68	68	70	71	75	75	75	66	61	41
500	76	76	75	74	75	76	76	77	75	75	76	77	74	71	73	73	66	62	42
630	74	77	75	74	72	71	69	69	69	69	72	74	71	71	73	72	63	60	40
800	74	75	75	73	74	71	69	69	69	69	72	74	71	70	68	73	62	60	40
1000	75	76	76	74	74	73	70	71	69	69	69	70	71	71	70	74	64	59	39
1250	70	77	76	74	74	73	68	71	68	68	70	72	68	70	69	74	65	59	39
1600	78	77	76	75	74	75	69	72	69	68	66	69	69	70	68	71	64	58	38
2000	80	80	79	76	76	77	72	73	70	68	66	69	68	68	67	69	62	56	36
2500	82	83	81	79	79	80	75	76	72	69	66	68	66	66	66	66	61	54	34
3150	82	85	81	81	81	81	76	76	73	70	67	68	67	67	66	67	61	54	34
4000	82	86	82	80	82	83	78	78	75	73	68	70	68	66	66	67	61	54	34
5000	75	81	80	80	78	78	74	74	70	64	66	66	64	62	62	56	50	30	
6300	72	75	76	75	71	63	67	66	61	63	58	61	59	60	57	57	51	45	25
8000	76	79	79	73	72	67	70	67	63	64	56	59	58	58	56	55	48	44	24
10000	68	71	71	70	66	62	63	61	61	60	55	58	57	58	55	54	47	42	22
OVERALL	91	93	91	90	89	89	86	86	85	90	90	91	91	90	86	88	80	76	56

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
OV-10A AIRCRAFT															
ENG. 176-G-10, 12															
GROUND RUNUP															
IDENTIFICATION:															
TEST 74-004-026															
OMEGA 8.2															
AIRCRAFT CODE 082															
OPERATION CODE 02015															
PROFILE VERSION A															
31 MAR 76															
PAGE D2															
METEOROLOGICAL DATA:															
TEMP = 59 F															
BAR PRESS = 29.92 IN HG															
REL HUMID = 70 %															
DELTA N = -3.0 DB															
ANGLE (DEGREES)															
DISTANCE (FEET)															
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
200	106.5	103.5	107.0	105.0	105.5	105.6	101.9	102.3	100.1	98.0	96.3	94.2	95.8	97.1	95.7
250	104.2	107.1	104.6	103.2	103.2	103.2	99.6	100.0	97.7	96.4	94.0	95.9	94.5	94.8	93.5
315	101.8	104.7	102.2	100.9	101.7	100.8	97.1	97.5	95.3	94.0	91.6	93.6	92.2	92.5	91.3
400	99.4	102.1	99.6	98.4	98.2	98.3	94.6	95.0	92.0	91.5	89.1	91.1	89.7	90.2	89.0
500	96.6	99.5	97.0	95.8	95.5	95.6	91.9	92.4	89.2	88.9	86.5	88.5	87.1	87.8	86.6
530	94.1	96.6	94.1	93.1	92.7	92.8	89.1	89.6	87.4	86.1	83.8	85.8	84.4	85.3	84.2
800	91.2	93.6	91.2	90.2	89.8	89.8	86.1	86.6	84.4	83.1	81.2	82.9	81.7	82.8	81.7
1000	88.2	90.3	88.1	87.1	86.7	86.6	82.8	83.3	81.2	79.9	78.5	80.1	79.9	80.1	79.3
1250	85.6	87.4	84.9	83.7	83.4	83.3	79.4	80.1	77.9	76.5	75.7	77.3	75.9	77.0	76.0
1500	81.6	83.3	81.4	80.0	79.7	79.6	75.7	76.6	74.3	72.3	72.6	74.2	72.5	73.6	72.0
2000	77.9	79.3	77.6	76.1	75.7	75.7	71.9	72.9	70.5	69.5	69.5	71.0	69.3	70.1	69.3
2500	73.7	74.9	73.4	71.7	71.3	71.5	67.8	68.8	66.3	65.3	65.9	67.5	65.7	66.1	65.3
3150	69.1	71.3	68.7	67.0	66.6	66.8	63.0	64.1	62.0	61.6	61.6	63.4	61.5	61.5	60.9
4000	64.9	65.4	63.5	61.7	61.4	61.5	57.8	59.2	57.2	56.8	57.1	58.7	56.5	56.4	57.4
5000	58.1	59.1	57.7	55.7	55.5	55.4	52.3	53.8	51.6	51.2	51.7	53.4	51.0	50.8	52.4
6300	52.1	52.7	51.4	49.0	48.8	49.1	46.4	48.1	45.4	45.2	45.8	47.7	45.0	44.7	45.1
8000	45.7	46.9	45.4	43.4	43.3	43.7	41.4	43.2	40.3	39.8	40.7	42.6	40.2	39.5	40.0
10000	40.6	41.0	39.4	37.3	37.4	37.7	35.2	37.4	34.1	34.1	35.2	36.9	34.7	34.7	35.6
12500	33.2	34.1	32.4	29.9	30.0	30.5	28.6	30.3	27.8	27.5	29.0	31.2	28.4	26.1	28.5
16000	24.9	26.2	23.5	19.4	20.6	22.5	19.4	22.8	18.2	19.3	22.1	23.9	17.6	17.0	19.7
20000	12.0	13.8	11.4	7.6	9.3	12.0	10.6	13.2	9.3	9.3	11.5	13.2	7.6	7.0	11.0
25000	1.3	1.3	1.3	1.3	1.5	1.5	1.8	3.7	.5	.5	.8	2.6	2.2	2.2	1.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(OV-10A AIRCRAFT)										(OMEGA A-2)									
(ENG. 176-G-16,12)										(TEST: 74-004-026)									
(GROUND RUNUP)										(RUN 02)									
(OPERATION:)										(AIRCRAFT CODE 082)									
(TAXI POWER, 70% RPH)										(OPERATION CODE J2315)									
(SINGLE ENGINE)										(PROFILE VERSION A)									
()										(31 MAR 76)									
()										(PAGE E2)									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()</									

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (O3A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 74-004-026																			
) RUN 02																			
) AIRCRAFT CODE 082																			
) OPERATION CODE 02J15																			
) PROFILE VERSION A																			
) 31 MAR 76																			
) PAGE 62																			
) METEORLOGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	93.5	90.1	86.6	83.2	79.8	76.4	73.0	69.6	66.2	62.8	59.4	56.0	52.6	49.2	45.8	42.4	39.0	35.6	32.2
250	91.2	87.8	84.4	81.0	77.6	74.2	70.8	67.4	64.0	60.6	57.2	53.8	50.4	47.0	43.6	40.2	36.8	33.4	30.0
300	88.9	85.5	82.1	78.7	75.3	71.9	68.5	65.1	61.7	58.3	54.9	51.5	48.1	44.7	41.3	37.9	34.5	31.1	27.7
350	86.6	83.2	79.8	76.4	73.0	69.6	66.2	62.8	59.4	56.0	52.6	49.2	45.8	42.4	39.0	35.6	32.2	28.8	25.4
400	84.3	80.9	77.5	74.1	70.7	67.3	63.9	60.5	57.1	53.7	50.3	46.9	43.5	40.1	36.7	33.3	29.9	26.5	23.1
450	82.0	78.6	75.2	71.8	68.4	65.0	61.6	58.2	54.8	51.4	48.0	44.6	41.2	37.8	34.4	31.0	27.6	24.2	20.8
500	79.7	76.3	72.9	69.5	66.1	62.7	59.3	55.9	52.5	49.1	45.7	42.3	38.9	35.5	32.1	28.7	25.3	21.9	18.5
550	77.4	74.0	70.6	67.2	63.8	60.4	57.0	53.6	50.2	46.8	43.4	40.0	36.6	33.2	29.8	26.4	23.0	19.6	16.2
600	75.1	71.7	68.3	64.9	61.5	58.1	54.7	51.3	47.9	44.5	41.1	37.7	34.3	30.9	27.5	24.1	20.7	17.3	13.9
650	72.8	69.4	66.0	62.6	59.2	55.8	52.4	49.0	45.6	42.2	38.8	35.4	32.0	28.6	25.2	21.8	18.4	15.0	11.6
700	70.5	67.1	63.7	60.3	56.9	53.5	50.1	46.7	43.3	39.9	36.5	33.1	29.7	26.3	22.9	19.5	16.1	12.7	9.3
750	68.2	64.8	61.4	58.0	54.6	51.2	47.8	44.4	41.0	37.6	34.2	30.8	27.4	24.0	20.6	17.2	13.8	10.4	7.0
800	65.9	62.5	59.1	55.7	52.3	48.9	45.5	42.1	38.7	35.3	31.9	28.5	25.1	21.7	18.3	14.9	11.5	8.1	4.7
850	63.6	60.2	56.8	53.4	50.0	46.6	43.2	39.8	36.4	33.0	29.6	26.2	22.8	19.4	16.0	12.6	9.2	5.8	2.4
900	61.3	57.9	54.5	51.1	47.7	44.3	40.9	37.5	34.1	30.7	27.3	23.9	20.5	17.1	13.7	10.3	6.9	3.5	0.1
950	59.0	55.6	52.2	48.8	45.4	42.0	38.6	35.2	31.8	28.4	25.0	21.6	18.2	14.8	11.4	8.0	4.6	1.2	-0.2
1000	56.7	53.3	49.9	46.5	43.1	39.7	36.3	32.9	29.5	26.1	22.7	19.3	15.9	12.5	9.1	5.7	2.3	-0.1	-0.5
1050	54.4	51.0	47.6	44.2	40.8	37.4	34.0	30.6	27.2	23.8	20.4	17.0	13.6	10.2	6.8	3.4	0.0	-0.4	-0.8
1100	52.1	48.7	45.3	41.9	38.5	35.1	31.7	28.3	24.9	21.5	18.1	14.7	11.3	7.9	4.5	1.1	-0.3	-0.7	-1.1
1150	49.8	46.4	43.0	39.6	36.2	32.8	29.4	26.0	22.6	19.2	15.8	12.4	9.0	5.6	2.2	-0.2	-0.6	-1.0	-1.4
1200	47.5	44.1	40.7	37.3	33.9	30.5	27.1	23.7	20.3	16.9	13.5	10.1	6.7	3.3	-0.1	-0.5	-0.9	-1.3	-1.7
1250	45.2	41.8	38.4	35.0	31.6	28.2	24.8	21.4	18.0	14.6	11.2	7.8	4.4	1.0	-0.4	-0.8	-1.2	-1.6	-2.0
1300	42.9	39.5	36.1	32.7	29.3	25.9	22.5	19.1	15.7	12.3	8.9	5.5	2.1	-0.3	-0.7	-1.1	-1.5	-1.9	-2.3
1350	40.6	37.2	33.8	30.4	27.0	23.6	20.2	16.8	13.4	10.0	6.6	3.2	-0.2	-0.6	-1.0	-1.4	-1.8	-2.2	-2.6
1400	38.3	34.9	31.5	28.1	24.7	21.3	17.9	14.5	11.1	7.7	4.3	0.9	-0.5	-0.9	-1.3	-1.7	-2.1	-2.5	-2.9
1450	36.0	32.6	29.2	25.8	22.4	19.0	15.6	12.2	8.8	5.4	2.0	-0.4	-0.8	-1.2	-1.6	-2.0	-2.4	-2.8	-3.2
1500	33.7	30.3	26.9	23.5	20.1	16.7	13.3	9.9	6.5	3.1	-0.3	-0.7	-1.1	-1.5	-1.9	-2.3	-2.7	-3.1	-3.5
1550	31.4	28.0	24.6	21.2	17.8	14.4	11.0	7.6	4.2	0.8	-0.6	-1.0	-1.4	-1.8	-2.2	-2.6	-3.0	-3.4	-3.8
1600	29.1	25.7	22.3	18.9	15.5	12.1	8.7	5.3	1.9	0.4	-0.2	-0.6	-1.0	-1.4	-1.8	-2.2	-2.6	-3.0	-3.4
1650	26.8	23.4	20.0	16.6	13.2	9.8	6.4	3.0	-0.4	-0.8	-1.2	-1.6	-2.0	-2.4	-2.8	-3.2	-3.6	-4.0	-4.4
1700	24.5	21.1	17.7	14.3	10.9	7.5	4.1	0.7	-0.7	-1.1	-1.5	-1.9	-2.3	-2.7	-3.1	-3.5	-3.9	-4.3	-4.7
1750	22.2	18.8	15.4	12.0	8.6	5.2	1.8	0.3	-0.1	-0.5	-0.9	-1.3	-1.7	-2.1	-2.5	-2.9	-3.3	-3.7	-4.1
1800	19.9	16.5	13.1	9.7	6.3	2.9	-0.5	-0.9	-1.3	-1.7	-2.1	-2.5	-2.9	-3.3	-3.7	-4.1	-4.5	-4.9	-5.3
1850	17.6	14.2	10.8	7.4	4.0	0.6	-0.8	-1.2	-1.6	-2.0	-2.4	-2.8	-3.2	-3.6	-4.0	-4.4	-4.8	-5.2	-5.6
1900	15.3	11.9	8.5	5.1	1.7	0.2	-0.6	-1.0	-1.4	-1.8	-2.2	-2.6	-3.0	-3.4	-3.8	-4.2	-4.6	-5.0	-5.4
1950	13.0	9.6	6.2	2.8	-0.6	-1.0	-1.4	-1.8	-2.2	-2.6	-3.0	-3.4	-3.8	-4.2	-4.6	-5.0	-5.4	-5.8	-6.2
2000	10.7	7.3	3.9	0.5	-0.9	-1.3	-1.7	-2.1	-2.5	-2.9	-3.3	-3.7	-4.1	-4.5	-4.9	-5.3	-5.7	-6.1	-6.5
2050	8.4	5.0	1.6	-0.8	-1.2	-1.6	-2.0	-2.4	-2.8	-3.2	-3.6	-4.0	-4.4	-4.8	-5.2	-5.6	-6.0	-6.4	-6.8
2100	6.1	2.7	-0.7	-1.1	-1.5	-1.9	-2.3	-2.7	-3.1	-3.5	-3.9	-4.3	-4.7	-5.1	-5.5	-5.9	-6.3	-6.7	-7.1
2150	3.8	0.4	-1.0	-1.4	-1.8	-2.2	-2.6	-3.0	-3.4	-3.8	-4.2	-4.6	-5.0	-5.4	-5.8	-6.2	-6.6	-7.0	-7.4
2200	1.5	-1.9	-2.3	-2.7	-3.1	-3.5	-3.9	-4.3	-4.7	-5.1	-5.5	-5.9	-6.3	-6.7	-7.1	-7.5	-7.9	-8.3	-8.7
2250	-0.8	-2.2	-2.6	-3.0	-3.4	-3.8	-4.2	-4.6	-5.0	-5.4	-5.8	-6.2	-6.6	-7.0	-7.4	-7.8	-8.2	-8.6	-9.0
2300	-2.5	-3.9	-4.3	-4.7	-5.1	-5.5	-5.9	-6.3	-6.7	-7.1	-7.5	-7.9	-8.3	-8.7	-9.1	-9.5	-9.9	-10.3	-10.7
2350	-4.2	-5.6	-6.0	-6.4	-6.8	-7.2	-7.6	-8.0	-8.4	-8.8	-9.2	-9.6	-10.0	-10.4	-10.8	-11.2	-11.6	-12.0	-12.4
2400	-5.9	-7.3	-7.7	-8.1	-8.5	-8.9	-9.3	-9.7	-10.1	-10.5	-10.9	-11.3	-11.7	-12.1	-12.5	-12.9	-13.3	-13.7	-14.1
2450	-7.6	-9.0	-9.4	-9.8	-10.2	-10.6	-11.0	-11.4	-11.8	-12.2	-12.6	-13.0	-13.4	-13.8	-14.2	-14.6	-15.0	-15.4	-15.8
2500	-9.3	-10.7	-11.1	-11.5	-11.9	-12.3	-12.7	-13.1	-13.5	-13.9	-14.3	-14.7	-15.1	-15.5	-15.9	-16.3	-16.7	-17.1	-17.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT
 OV-10A AIRCRAFT
 ENG. 176-6-10-12
 GROUND RUNUP
 (OPERATION)
 TAXI POWER, 7.2 RPM
 SINGLE ENGINE
 METEOROLGY
 TEMP = 59 F
 BAR PRESS = 29.32 IN HG
 REL HUMID = 75 %
 DELTA N = -3.0 D9
 IDENTIFICATION
 OMEGA 8.2
 TEST 76-866-826
 RUN 32
 AIRCRAFT CODE 982
 OPERATION CODE 32015
 PROFILE VERSION A
 31 MAR 76
 PAGE J2

	10	20	30	40	50	60	70	80	90	100	110
6											
10											
16											
20											
26											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
170											
180											

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
(OPERATION:)																			
(OV-10A AIRCRAFT)																			
(ENG. 176-G-10,12)																			
(GROUND RUNUP)																			
MILITARY POWER, 1012 RPM																			
SINGLE ENGINE																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA M = -3.0 DB																			
METEOROLOGY:																			
AIRCRAFT CODE 082																			
OPERATION CODE 02004																			
PROFILE VERSION A																			
31 MAR 76																			
PAGE C3																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-026																			
RUN 03																			
ANGLE (DEGREES)																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	66	67	67	67	67	70	72	72	70	70	70	70	70	70	70	70	69	67	47
63	71	72	71	73	72	73	73	72	73	76	74	75	74	75	74	73	73	73	53
80	74	75	77	81	80	80	77	76	85	88	87	85	86	83	83	83	77	74	54
100	91	92	96	100	100	99	90	97	106	107	106	106	106	102	102	96	92	72	72
125	75	76	76	77	80	80	79	77	87	86	86	86	86	82	82	78	74	54	
160	80	80	79	76	77	77	77	76	81	85	84	85	82	77	76	76	72	52	
200	80	83	86	84	94	94	95	94	102	105	104	105	111	93	87	88	97	67	
250	79	81	79	79	79	81	81	83	89	90	89	88	85	81	79	77	74	54	
315	87	87	84	87	85	91	91	95	101	100	98	92	86	85	85	85	81	61	
400	84	82	82	82	83	88	90	91	96	95	93	90	88	86	82	77	78	58	
500	84	84	84	84	85	81	82	90	96	92	87	82	82	83	80	78	76	56	
630	86	83	84	83	82	81	82	87	94	88	83	81	80	82	79	75	72	52	
800	85	84	85	83	82	81	80	83	88	88	83	79	79	81	80	77	73	53	
1000	86	84	84	83	82	82	81	83	86	81	77	82	80	83	82	78	73	53	
1250	84	83	82	82	82	83	84	83	84	81	76	80	79	82	81	78	73	53	
1600	82	81	80	81	82	84	84	85	84	81	76	81	80	82	82	79	73	53	
2000	82	81	81	82	83	84	86	87	86	80	77	81	81	82	81	80	74	54	
2500	80	81	80	81	82	83	85	85	85	80	75	80	80	81	81	80	74	54	
3150	81	83	82	83	84	84	84	86	85	80	75	81	81	82	82	82	76	56	
4000	82	83	82	83	84	83	85	85	84	81	76	80	81	82	82	82	77	57	
5000	79	78	76	79	80	81	81	80	78	75	72	76	76	78	78	77	75	55	
6300	73	74	74	75	75	70	77	75	74	71	67	71	72	73	73	72	71	51	
8000	70	70	71	71	72	71	73	72	70	66	64	68	69	70	70	68	68	48	
10000	70	71	71	72	71	72	72	72	68	68	63	67	67	68	67	65	64	44	
OVERALL	97	97	96	99	101	102	102	102	109	110	109	109	108	103	103	98	95	75	
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNL3)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(OV-10A AIRCRAFT)										(OMEGA 8.2)									
(ENG. 176-G-11,12)										(TEST 74-004-026)									
(GROUND RUNUP)										(RUN 33)									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									
()										()									

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
(OV-10A AIRCRAFT)															
(ENG. 176-6-10-12)															
(GROUND RUNUP)															
OPERATION:															
(MILITARY POWER, 101X MPH)															
(SINGLE ENGINE)															
METEOROLOGY:															
(TEMP = 59 F)															
(BAR PRESS = 29.92 IN HG)															
(REL HUMID = 70 %)															
(DELTA N = -3.0 DB)															
IDENTIFICATION:															
(OMEGA 8.2)															
(TEST 74-304-326)															
RUN 83															
AIRCRAFT CODE 082															
OPERATION CODE 02304															
PROFILE VERSION A															
31 MAR 76															
PAGE 53															
DISTANCE															
(FEET)															
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
200	112.2	112.5	111.9	112.0	113.9	114.2	115.2	116.0	116.8	119.1	118.9	117.0	117.8	115.8	113.8
250	109.9	110.3	109.5	110.5	111.6	111.9	113.0	113.7	114.6	117.0	116.8	114.9	115.7	113.7	111.7
315	107.6	107.9	107.2	108.1	109.2	109.6	110.6	111.4	112.5	114.9	114.7	112.8	113.6	111.6	109.5
400	105.2	105.4	104.7	105.7	106.7	107.2	108.2	109.1	110.2	112.7	112.5	110.5	111.3	109.4	107.3
500	102.6	102.9	102.2	103.2	104.2	104.7	105.7	106.6	107.9	110.4	110.1	108.1	108.9	107.1	105.0
600	99.9	100.3	99.6	100.6	101.8	102.2	103.1	104.0	105.6	108.1	107.6	105.6	106.3	104.8	102.6
800	97.1	97.5	96.8	97.8	99.1	99.5	100.4	101.3	103.1	105.7	104.5	103.3	103.6	102.2	100.3
1000	94.2	94.6	93.8	94.8	96.2	96.6	97.0	98.6	100.5	103.1	102.1	100.1	100.7	99.3	97.1
1250	91.0	91.3	90.6	91.5	93.0	93.5	94.0	95.6	97.4	100.1	99.0	97.3	97.6	96.2	94.0
1500	87.7	87.8	87.1	88.0	89.6	90.1	91.3	92.2	94.2	96.8	95.6	93.6	94.2	92.8	90.6
2000	84.2	84.6	83.3	84.5	85.6	86.3	87.8	88.7	90.6	93.5	92.0	90.0	90.5	89.1	86.8
2500	80.7	81.1	79.6	81.4	83.6	84.3	85.8	86.9	89.3	91.1	89.8	88.3	88.3	86.7	84.3
3150	77.0	78.0	75.7	78.3	80.3	81.4	82.3	83.8	85.3	87.3	85.3	83.7	84.4	82.3	80.1
4000	72.2	73.9	73.9	71.0	71.7	72.4	73.9	75.7	77.8	80.0	78.0	75.3	75.1	73.3	71.6
5000	68.9	69.7	69.8	67.5	68.1	68.5	69.0	70.2	72.4	75.4	72.1	69.0	69.0	66.8	64.0
6300	61.2	61.0	61.2	59.6	61.1	61.5	61.5	64.4	66.6	69.0	65.4	62.7	62.8	60.3	57.9
8000	56.3	56.7	54.9	54.4	54.4	55.0	55.6	59.6	62.0	65.3	61.9	58.3	58.3	55.7	52.9
10000	50.9	49.2	49.3	48.9	48.9	49.0	49.5	54.5	56.9	60.5	57.1	53.5	53.5	50.7	47.9
12500	45.1	43.6	43.3	43.1	43.9	42.5	44.0	49.5	52.2	56.0	52.6	49.2	49.2	45.9	43.0
15000	38.4	37.1	37.1	37.7	37.5	36.2	38.2	43.7	46.8	50.9	47.6	44.4	44.4	40.5	37.5
20000	30.6	29.6	29.5	29.2	30.1	29.6	31.3	37.0	40.5	45.2	42.0	38.4	38.4	34.3	31.4
25000	19.6	18.9	17.7	18.2	20.0	20.3	23.1	29.4	33.2	38.3	35.9	33.6	32.6	28.6	21.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE# TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT#										IDENTIFICATION#									
(OV-10A AIRCRAFT)										(OMEGA 8-2)									
(ENG. 176-G-1J,12)										(TEST 74-804-026)									
(GROUND RUNUP)										(RUN 03)									
(OPERATIONS#)										(METEOROLOGY#)									
(MILITARY POWER, 10.1% RPM)										(AIRCRAFT CODE 082)									
(SINGLE ENGINE)										(OPERATION CODE 02004)									
()										(BAR PRESS = 29.92 IN HG)									
()										(REL HUMID = 70 %)									
()										(31 MAR 76)									
()										(DELTA N = -3.0 DB)									
()										(PAGE G3)									
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(200)	99.0	93.5	98.3	98.6	99.2	99.9	101.1	102.3	103.7	106.3	104.9	102.9	102.6	100.4	99.0	98.3	96.2	91.9	71.9
(250)	96.6	90.3	95.8	96.4	97.0	97.7	98.9	100.2	101.0	104.3	102.9	100.8	100.5	98.3	96.8	96.1	94.0	89.7	69.7
(315)	94.7	88.1	93.6	94.2	94.8	95.5	96.7	98.0	99.5	102.2	100.8	98.8	98.4	96.2	94.6	93.9	91.7	87.4	67.4
(400)	92.4	85.8	91.4	92.0	92.5	93.2	94.4	95.8	97.3	100.1	98.7	96.6	96.3	94.0	92.4	91.6	89.4	85.1	65.1
(500)	90.2	83.5	89.1	89.6	90.2	90.9	92.1	93.6	95.1	97.9	96.5	94.4	93.9	91.7	90.1	89.3	87.0	82.7	62.7
(630)	87.9	81.2	86.7	87.3	87.8	88.5	89.7	91.2	92.0	95.7	94.3	92.1	91.5	89.3	87.8	86.9	84.6	80.3	60.3
(800)	85.5	78.7	84.3	84.8	85.3	86.0	87.2	88.9	90.5	93.4	91.9	89.7	89.0	86.8	85.3	84.5	82.0	77.7	57.7
(1000)	83.0	76.2	81.8	82.3	82.7	83.4	84.6	86.4	88.1	91.1	89.5	87.2	86.3	84.1	82.7	81.8	79.3	75.0	55.0
(1250)	80.5	73.6	79.2	79.6	80.0	80.6	81.8	83.7	85.5	88.5	86.7	84.4	83.4	81.2	80.0	79.0	76.4	72.2	52.2
(1600)	77.8	70.8	76.5	76.8	77.1	77.6	78.9	80.9	82.7	85.9	83.9	81.4	80.3	78.2	77.2	76.1	73.4	69.2	49.2
(2000)	75.1	68.1	73.7	73.9	74.2	74.7	75.8	78.1	79.8	83.1	80.9	78.2	77.1	75.0	74.3	73.1	70.2	66.1	46.1
(2500)	72.2	65.2	70.8	70.8	71.0	71.5	72.4	74.8	76.6	80.0	77.4	74.5	73.3	71.4	71.0	69.8	66.3	62.7	42.7
(3150)	69.0	62.0	67.6	67.5	67.6	68.1	69.7	71.3	73.1	76.5	73.5	70.4	69.3	67.4	67.5	66.3	63.1	59.0	39.0
(4000)	65.0	58.0	63.5	63.2	63.3	63.9	65.0	66.7	68.5	72.0	68.6	65.2	64.1	62.5	63.0	61.8	58.6	54.5	34.5
(5000)	60.5	53.5	59.0	58.6	58.5	58.9	60.9	61.7	63.4	66.9	63.2	59.7	59.0	57.4	58.2	57.0	53.7	49.5	29.5
(6300)	55.7	48.7	54.2	53.5	53.4	53.8	55.6	56.5	58.2	61.8	57.9	54.3	53.6	52.1	53.1	51.8	48.5	44.4	24.4
(8000)	51.1	44.1	49.6	48.8	48.7	49.3	50.0	52.0	53.9	57.6	53.9	50.4	50.4	47.7	48.4	46.9	43.6	39.8	19.8
(10000)	46.0	39.0	44.5	43.7	43.6	44.2	45.0	47.4	49.3	53.1	49.7	46.3	45.0	43.3	43.4	41.8	38.4	34.9	14.9
(12500)	41.1	34.1	39.6	38.9	38.9	39.1	40.0	42.4	44.3	48.1	44.5	41.1	40.0	38.3	38.8	37.0	33.6	30.5	10.5
(16000)	35.7	28.7	34.2	33.7	33.9	34.2	35.1	37.5	39.4	43.2	39.6	36.2	35.1	33.4	34.0	32.2	28.8	25.9	5.9
(20000)	29.6	22.6	28.1	27.6	27.8	28.1	29.0	31.4	33.3	37.1	33.5	30.1	29.0	27.3	27.9	27.4	24.0	21.1	1.1
(25000)	23.4	16.4	21.9	21.4	21.6	21.9	22.8	25.2	27.1	30.9	27.3	23.9	22.8	21.1	21.6	22.9	18.8	16.3	
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

OV-10A AIRCRAFT

ENG. 176-G-10,12

GROUND RUNUP

OPERATION:

MILITARY POWER, 101X MPH

SINGLE ENGINE

METEOROLOGICAL:

TEMP = 53 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-026

RUN J3

AIRCRAFT CODE 002

OPERATION CODE 02004

PROFILC VERSION A

31 MAR 76

PAGE J3

	P=PNLT												A=AL												T=ALT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	20	30	40	50	60	70	80	90	100	110	120	20	30	40	50	60	70	80	90	100	110	120	20	30	40	50	60	70	80	90	100	110	120																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
0

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible][illegible][illegible][illegible][illegible][illegible]

USAF	FLYOVER MEASUREMENTS	USAF
USAF	AIRCRAFT CODE: 516	USAF
USAF	PROFILE VERSION: A	USAF
USAF	COMPUTER PROGRAM: OMEGA 6-5	USAF

POWER SETTING	PAGE
TAKEOFF 2800 RPM 60 IN HG	500 CTR

[illegible]

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PHLM

[illegible][illegible]

08 MAR 76

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF USAF USAF USAF USAF USAF USAF

Country	Platform	Configuration	Notes
USAF	F-15	100	USAF
USAF	F-16	100	USAF
USAF	F-18	100	USAF
USAF	F-19	100	USAF
USAF	F-20	100	USAF
USAF	F-21	100	USAF
USAF	F-22	100	USAF
USAF	F-23	100	USAF
USAF	F-24	100	USAF
USAF	F-25	100	USAF
USAF	F-26	100	USAF
USAF	F-27	100	USAF
USAF	F-28	100	USAF
USAF	F-29	100	USAF
USAF	F-30	100	USAF
USAF	F-31	100	USAF
USAF	F-32	100	USAF
USAF	F-33	100	USAF
USAF	F-34	100	USAF
USAF	F-35	100	USAF
USAF	F-36	100	USAF
USAF	F-37	100	USAF
USAF	F-38	100	USAF
USAF	F-39	100	USAF
USAF	F-40	100	USAF
USAF	F-41	100	USAF
USAF	F-42	100	USAF
USAF	F-43	100	USAF
USAF	F-44	100	USAF
USAF	F-45	100	USAF
USAF	F-46	100	USAF
USAF	F-47	100	USAF
USAF	F-48	100	USAF
USAF	F-49	100	USAF
USAF	F-50	100	USAF
USAF	F-51	100	USAF
USAF	F-52	100	USAF
USAF	F-53	100	USAF
USAF	F-54	100	USAF
USAF	F-55	100	USAF
USAF	F-56	100	USAF
USAF	F-57	100	USAF
USAF	F-58	100	USAF
USAF	F-59	100	USAF
USAF	F-60	100	USAF
USAF	F-61	100	USAF
USAF	F-62	100	USAF
USAF	F-63	100	USAF
USAF	F-64	100	USAF
USAF	F-65	100	USAF
USAF	F-66	100	USAF
USAF	F-67	100	USAF
USAF	F-68	100	USAF
USAF	F-69	100	USAF
USAF	F-70	100	USAF
USAF	F-71	100	USAF
USAF	F-72	100	USAF
USAF	F-73	100	USAF
USAF	F-74	100	USAF
USAF	F-75	100	USAF
USAF	F-76	100	USAF
USAF	F-77	100	USAF
USAF	F-78	100	USAF
USAF	F-79	100	USAF
USAF	F-80	100	USAF
USAF	F-81	100	USAF
USAF	F-82	100	USAF
USAF	F-83	100	USAF
USAF	F-84	100	USAF
USAF	F-85	100	USAF
USAF	F-86	100	USAF
USAF	F-87	100	USAF
USAF	F-88	100	USAF
USAF	F-89	100	USAF
USAF	F-90	100	USAF
USAF	F-91	100	USAF
USAF	F-92	100	USAF
USAF	F-93	100	USAF
USAF	F-94	100	USAF
USAF	F-95	100	USAF
USAF	F-96	100	USAF
USAF	F-97	100	USAF
USAF	F-98	100	USAF
USAF	F-99	100	USAF
USAF	F-100	100	USAF
USAF	F-101	100	USAF
USAF	F-102	100	USAF
USAF	F-103	100	USAF
USAF	F-104	100	USAF
USAF	F-105	100	USAF
USAF	F-106	100	USAF
USAF	F-107	100	USAF
USAF	F-108	100	USAF
USAF	F-109	100	USAF
USAF	F-110	100	USAF
USAF	F-111	100	USAF
USAF	F-112	100	USAF
USAF	F-113	100	USAF
USAF	F		

[illegible]

	30	40	50	60	70	80	90	100	MEAN	SD
50	76.0	
63	80.0	
80	70.0	
100	77.0	
125	95.0	
160	90.0	
200	85.0	
250	91.0	
315	86.0	
400	83.0	
500	84.0	
630	82.0	
800	81.0	
1000	79.0	
1250	78.0	
1600	78.0	
2000	78.0	
2500	77.0	
3150	75.0	
4000	72.0	
5000	66.0	
6300	60.0	
8000	54.0	
10000	46.0	

806

T-29
 AIRSPEED = 140 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 1
 TAKEOFF POWER
 2800 RPM
 60 IN HG
 TEMP = 59 F
 REL HUMID = 73 %
 IDENT: 6.6-516-103-080376
 PNL T = 106.0 PNOB
 PNL = 104.0 PNOB
 ALT = 92.9 OBA
 AL = 91.0 OBA

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	TAKEOFF POWER	60 IN MG	METEOROLOGY:	TEMP	REL HUMID	DELTA N	0.0 DB	PAGE 11
T-29	2800 RPM	2800 RPM	60 IN MG	TEMP	REL HUMID	DELTA N	0.0 DB	0.0 DB	0.0 DB
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	106.4	108.4	120.2	122.1	107.9	109.5	113.2		
250	104.3	106.2	117.9	119.9	106.7	108.3	112.0		
315	102.2	104.1	115.7	117.6	105.6	107.2	110.7		
400	100.0	101.9	113.4	115.3	104.4	106.0	109.5		
500	97.8	99.7	111.2	113.1	103.2	104.8	108.2		
630	95.6	97.5	108.8	110.8	102.0	103.6	106.9		
800	93.3	95.2	106.5	108.4	100.7	102.3	105.5		
1000	91.0	92.9	104.0	106.0	99.4	101.0	104.1		
1250	88.6	90.5	101.6	103.5	98.0	99.6	102.6		
1600	86.2	88.1	99.0	100.9	96.6	98.2	101.1		
2000	83.7	85.6	96.4	98.3	95.1	96.7	99.5		
2500	81.2	83.1	93.8	95.7	93.6	95.2	97.8		
3150	78.5	80.5	91.1	93.0	92.0	93.6	96.1		
4000	76.0	77.5	88.3	89.8	90.4	91.7	94.0		
5000	73.3	74.4	85.4	86.5	88.7	89.7	91.8		
6300	70.5	71.3	82.3	83.1	86.9	87.5	89.4		
8000	67.6	68.0	79.1	79.5	85.0	85.7	86.8		
10000	64.6	64.6	75.7	75.7	83.0	83.0	84.2		
12500	61.5	61.5	72.2	72.2	80.9	80.9	81.7		
16000	58.3	58.3	68.5	68.5	78.7	78.7	79.0		
20000	54.8	54.8	64.7	64.7	76.2	76.2	76.1		
25000	51.2	51.2	60.6	60.6	73.6	73.6	73.0		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS. 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	T-29	TAKEOFF POWER	A	P
250	2800 RPM	60 IN HG	A +	* P
315	AIR SPEED = 140 KNOTS			
400	TEMP = 59 F	REL HUMID = 70 %	A +	* P
500	DELTA N = 0.0 DB		A +	* P
	NO. OF RECORDS: 1			
	IDENT: 6.6-516-103-080376-A			
S 630			A +	* P
L 800			A +	* P
N 1000			A +	* P
D 1250			A +	* P
I 1600			A +	* P
S 2000			A +	* P
C 2500			A +	* P
E 3150			A +	* P
I 4000			A +	* P
F 5000			A +	* P
E 6300			A +	* P
T 8000			A +	* P
10000			A +	* P
12500			A +	* P
16000			A +	* P
20000			A +	* P
25000			A +	* P

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:
GROUND-TO-GROUND PROPAGATION																								OMEGA 6.6
AIRCRAFT:																								A/C CODE: 516
T-29																								OPS CODE: 103
2800 RPM																								REL HUMID = 70 %
60 IN HG																								08 MAR 76
AIRSPEED = 140 KNOTS																								PAGE 11
DELTA N = 0.0 DB																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	89	79	86	104	99	94	100	95	92	94	92	91	89	88	89	89	89	88	87	82	79	78	77
250	83	87	77	84	102	97	92	98	93	90	92	90	89	87	86	87	87	87	86	85	80	77	75	73
315	81	85	75	82	100	95	90	96	91	88	89	88	87	85	84	85	85	85	84	82	77	74	72	70
400	79	83	73	80	98	93	88	94	89	86	87	86	85	83	82	82	83	82	81	80	74	71	68	65
500	77	81	71	78	96	90	86	92	87	84	85	83	83	81	80	80	81	80	79	77	71	67	64	61
630	75	79	69	76	93	88	83	89	85	82	83	81	80	79	78	78	78	77	76	74	68	64	60	55
800	73	77	67	74	91	85	80	87	83	80	81	79	78	76	75	75	76	75	73	71	65	60	55	49
1000	71	75	65	71	88	82	77	84	81	78	79	77	76	74	73	73	73	72	70	67	61	55	49	41
1250	69	73	62	68	85	79	74	81	78	76	77	75	74	72	71	70	70	69	67	63	57	50	42	32
1600	67	70	59	64	81	76	71	77	75	74	75	72	71	69	68	68	67	66	63	59	52	44	34	21
2000	64	66	55	60	77	72	67	73	71	71	72	70	69	67	65	65	64	62	59	53	46	36	25	8
2500	60	62	51	56	73	67	62	69	67	68	70	68	66	64	62	61	60	58	54	47	39	28	13	
3150	56	58	46	51	68	63	57	64	63	64	66	65	63	61	59	58	56	53	48	40	32	17		
4000	52	53	41	46	63	57	52	58	58	59	63	62	61	58	55	54	52	48	42	32	22	5		
5000	47	48	36	41	58	52	47	53	52	53	58	57	57	54	52	49	47	42	34	22	11			
6300	42	44	31	36	53	47	42	48	46	48	54	53	53	50	47	44	41	35	25	10				
8000	40	41	29	34	51	45	39	45	43	45	51	50	49	46	42	38	34	26	14					
10000	37	39	27	32	48	42	37	43	40	42	47	46	44	41	36	31	26	16	1					
12500	35	37	25	29	46	40	34	40	37	38	44	41	39	35	30	23	16	3						
16000	33	35	22	27	43	37	31	37	33	34	39	36	34	28	22	13	4							
20000	31	32	20	24	41	34	28	33	29	30	34	31	27	20	12	2								
25000	28	30	17	22	38	31	25	29	25	25	28	24	19	11	0									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

[illegible]

	10	20	30	40	50	60	70	80	MEAN	SD
F R E Q U E N C Y										
50	(.	76.0	
63	(.	X	62.0	
80	(.	X	.	63.0	
100	(.	69.0	
125	(.	X	.	75.0	
160	(.	X	80.0	
200	(.	X	77.0	
250	(.	X	.	72.0	
315	(.	70.0	
400	(.	X	.	73.0	
500	(.	70.0	
630	(.	X	.	69.0	
800	(.	X	68.0	
1000	(.	X	.	66.0	
1250	(.	65.0	
1600	(.	X	.	64.0	
2000	(.	63.0	
2500	(.	X	.	61.0	
3150	(.	58.0	
4000	(.	52.0	
5000	(.	47.0	
6300	(.	43.0	
8000	(.	33.0	
10000	(.	22.0	

615

T-29
 AIRSPEED = 160 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 1
 CRUISE POWER
 2000 RPM
 32 IN HG
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-516-104-000376
 PNLT = 90.3 PNOB
 PNL = 89.7 PNOB
 ALT = 77.8 OBA
 AL = 77.2 OBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																							
AIR-TO-GROUND PROPAGATION												IDENTIFICATION:											
(OPERATIONS:)												OMEGA 6.6											
(CRUISE POWER)												A/C CODE: 316											
(2000 RPM)												OPS CODE: 104											
(32 IN HG)												REL HUMID = 70 %											
(AIRSPEED = 180 KNOTS)												08 MAR 76											
(DELTA N = 0.0 DB)												PAGE H2											
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
90	76	77	83	89	94	91	86	84	87	85	84	83	81	80	80	79	78	76	72	68	67	62	58
88	74	75	81	87	92	89	84	82	85	83	82	81	79	78	78	77	76	74	70	66	65	59	54
315	86	72	73	79	85	90	87	82	80	83	81	80	79	77	76	76	75	74	72	67	63	62	56
400	84	70	71	77	83	88	85	80	78	81	78	77	75	74	73	73	71	69	65	60	59	52	46
500	82	68	69	75	81	86	83	78	76	79	76	75	75	73	72	71	69	67	62	58	55	48	42
630	80	66	67	73	79	84	81	76	74	77	74	73	72	71	70	69	68	64	59	54	52	44	36
800	78	64	65	71	77	82	79	74	72	75	72	71	70	68	67	66	64	61	56	51	48	39	30
1000	76	62	63	69	75	80	77	72	70	73	70	69	68	66	65	64	63	61	58	52	47	43	33
1250	74	60	61	67	73	78	75	70	68	71	68	67	66	64	63	61	60	58	55	48	43	38	26
1600	72	58	59	65	71	76	73	68	66	69	66	64	63	61	60	59	57	55	51	44	38	32	18
2000	70	56	57	63	69	74	71	66	64	66	63	62	61	59	57	56	54	51	47	38	32	24	8
2500	68	54	55	61	67	72	69	63	61	64	61	60	58	56	54	52	50	47	42	32	25	16	
3150	66	52	53	59	65	70	66	61	59	62	58	57	55	53	51	49	46	42	36	25	17	5	
4000	64	50	51	57	62	67	64	59	57	59	56	54	52	50	47	45	42	37	30	17	8		
5000	62	48	49	54	60	65	62	57	54	57	53	51	49	46	44	40	37	31	22	7			
6300	60	46	46	52	58	63	59	54	52	54	50	48	46	42	39	35	31	24	13				
8000	58	43	44	50	56	60	57	51	49	51	47	45	42	36	34	29	24	15	2				
10000	55	41	42	48	53	58	54	49	46	48	43	41	37	33	28	22	15	5					
12500	53	39	40	45	51	55	52	46	43	44	39	36	32	27	21	14	5						
16000	51	37	37	43	48	53	49	43	39	40	35	31	27	20	13	4							
20000	49	34	35	40	46	50	45	39	35	36	30	25	20	12	4								
25000	46	32	32	38	43	46	42	35	31	31	24	19	12	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	CRUISE POWER	32 IN HG	METEOROLOGY:	TEMP	REL HUMID	DELTA N	SELT**	EPNL**
T-29	(	2000 RPM			59 F	70 %		(DB)	(EPNOB)
	(	AIR SPEED = 180 KNOTS					0.0 DB		
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PN03)	PNLT** (PN03)	SEL (DB)				
200	92.3	32.9	105.4	106.1	95.1	96.3	98.8		
250	90.2	30.9	103.3	103.9	94.0	95.2	97.7		
315	88.1	28.8	101.1	101.8	92.9	94.1	96.5		
400	86.0	26.6	98.9	99.6	91.8	93.0	95.3		
500	83.8	24.5	96.7	97.3	90.7	91.9	94.1		
630	81.6	22.3	94.4	95.1	89.5	90.7	92.8		
800	79.4	20.1	92.1	92.7	88.3	89.5	91.5		
1000	77.2	17.8	89.7	90.3	87.0	88.2	90.1		
1250	74.8	15.5	87.2	87.9	85.7	86.9	88.7		
1600	72.5	13.1	84.7	85.4	84.3	85.5	87.2		
2000	70.1	10.7	82.1	82.7	82.9	84.1	85.5		
2500	67.6	8.2	79.3	80.0	81.4	82.6	83.7		
3150	65.0	5.7	76.5	77.1	79.8	81.0	81.9		
4000	62.4	3.9	73.5	74.1	78.2	79.2	79.7		
5000	59.6	2.0	70.5	70.9	76.5	77.2	77.5		
6300	56.8	0.1	67.4	67.6	74.7	75.1	75.1		
8000	53.9	0.0	64.0	64.1	72.7	73.0	72.5		
10000	50.8	0.8	60.5	60.5	70.7	70.7	69.8		
12500	47.7	7.7	56.9	56.9	68.5	68.5	67.2		
16000	44.3	4.3	53.0	53.0	66.2	66.2	64.2		
20000	40.9	0.9	48.8	48.8	63.7	63.7	61.0		
25000	37.2	3.2	44.0	44.0	61.0	61.0	57.2		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

200	(	T-29	CRUISE POWER	ST-E
250	(	2000 RPM	32 IN HG	
315	(	AIRSPEED = 180 KNOTS		ST E
400	(	TEMP = 59 F	REL HUMID = 70 %	ST E
500	(	DELTA N = 0.0 DB		ST E
	(	NO. OF RECORDS: 1		
	(	IDENT: 6.6-516-104-080376-A		
S 630	(			ST E
L 630	(			ST E
A 800	(			ST E
N 1000	(			ST E
O 1250	(			ST E
I 1600	(			ST E
T 2000	(			ST E
A 2500	(			ST E
N 3150	(			ST E
C 4000	(			ST E
E 5000	(			ST E
E 6300	(			ST E
T 8000	(			ST E
10000	(			ST E
12500	(			ST E
16000	(			ST E
20000	(			ST E
25000	(			ST E

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
(OPERATIONS:) METEOROLOGY:)										A/C CODE: 516	
(CRUISE POWER) TEMP)										OPS CODE: 104	
(2000 RPM 32 IN HG) REL HUMID = 70 %)										PROFILE VER: A	
(AIRSPEED = 180 KNOTS) DELTA N = 0.0 DB)										08 MAR 76	
()										PAGE M2	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	87.3	87.9	100.3	101.0	90.1	91.3	93.7				
250	85.2	85.8	98.2	98.8	89.0	90.2	92.6				
315	83.1	83.7	96.0	96.6	87.9	89.1	91.4				
400	80.9	81.6	93.7	94.3	86.8	87.9	90.1				
500	78.7	79.4	91.3	91.9	85.6	86.7	88.7				
630	76.4	77.1	88.7	89.4	84.3	85.4	87.1				
900	74.1	74.7	86.0	86.6	82.9	84.1	85.4				
1000	71.7	72.3	83.4	84.0	81.5	82.7	83.8				
1250	69.2	69.8	80.6	81.3	80.0	81.2	82.0				
1600	66.5	67.2	77.7	78.3	78.4	79.5	80.1				
2000	63.8	64.5	74.6	75.2	76.7	77.8	78.0				
2500	60.8	61.4	70.7	71.4	74.6	75.8	75.1				
3150	57.4	58.0	66.4	67.0	72.2	73.4	71.8				
4000	53.7	54.2	61.5	62.0	69.5	70.4	67.6				
5000	49.5	49.9	56.3	56.7	66.4	67.1	63.3				
6300	45.1	45.3	51.1	51.4	62.9	63.4	58.8				
8000	41.2	41.3	46.4	46.6	60.1	60.3	54.9				
10000	37.0	37.0	41.1	41.1	56.9	56.9	50.4				
12500	32.5	32.5	35.0	35.0	53.4	53.4	45.2				
16000	27.7	27.7	27.5	27.5	49.5	49.5	38.8				
20000	22.5	22.5	17.2	17.2	45.3	45.3	29.5				
25000	16.9	16.9	7.0	7.0	40.8	40.8	20.2				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	T-29	CRUISE POWER	ST-E
250	(	2000 RPM	32 IN HG	
315	(	AIRSPED = 180 KNOTS		ST E
400	(	TEMP = 59 F	REL HUMID = 70 %	ST.E
500	(	DELTA N = 0.0 DB		ST E
630	(	NO. OF RECORDS: 1		ST.E.
800	(	IDENT: 6.6-516-104-080376-A		ST E
1000	(			ST.E.
1250	(			ST E
1600	(			STE
2000	(			STE
2500	(			STE
3150	(			STE
4000	(			STE
5000	(			STE
6300	(			STE
8000	(			STE
10000	(			STE
12500	(			STE
16000	(			STE
20000	(			STE
25000	(			STE

APPROACH POWER

2400 RPM

27 IN HG

AIRSPEED = 120 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

NO. OF RECORDS -	1
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1
31	1
32	1
33	1
34	1
35	1
36	1
37	1
38	1
39	1
40	1
41	1
42	1
43	1
44	1
45	1
46	1
47	1
48	1
49	1
50	1
51	1
52	1
53	1
54	1
55	1
56	1
57	1
58	1
59	1
60	1
61	1
62	1
63	1
64	1
65	1
66	1
67	1
68	1
69	1
70	1
71	1
72	1
73	1
74	1
75	1
76	1
77	1
78	1
79	1
80	1
81	1
82	1
83	1
84	1
85	1
86	1
87	1
88	1
89	1
90	1
91	1
92	1
93	1
94	1
95	1
96	1
97	1
98	1
99	1
100	1

IDENT: 6.6-516-105-080376

PNT	=	90.3	PND3
PNT	=	89.2	PND3
ALT	=	77.6	DBA
AL	=	76.4	DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:		
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6		
AIRCRAFT:																									A/C CODE: 516		
((OPERATION:))																									OPS CODE: 105		
((APPROACH POWER))																									REL HUMID = 70 %		
((2400 RPM))																									PROFILE VER: A		
((27 IN HG))																									08 MAR 76		
((AIRSPEED = 120 KNOTS))																									PAGE W3		
DELTA N = 0.0 DB																											
FREQUENCY BAND NUMBER																											
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
200	93	80	72	82	94	92	91	88	86	84	85	82	81	80	79	79	78	76	75	72	68	65	60	56			
250	91	78	70	80	92	90	89	86	84	82	83	80	79	78	77	77	76	74	73	70	66	63	57	52			
315	89	76	68	78	90	88	87	84	82	80	81	78	77	76	75	75	74	72	71	67	63	60	54	49			
400	87	74	66	76	88	86	85	82	80	78	78	76	75	74	73	72	72	69	68	65	60	57	50	44			
500	85	72	64	74	86	84	83	80	78	76	76	73	73	72	71	70	70	67	66	62	58	53	46	40			
630	83	70	62	72	84	82	81	78	76	74	74	71	70	70	69	68	67	64	63	59	54	50	42	34			
800	81	68	60	70	82	80	79	76	74	72	72	69	68	67	66	65	65	62	60	56	51	46	37	28			
1000	79	66	58	68	80	78	77	74	72	70	70	67	66	65	64	63	62	59	57	52	47	41	31	20			
1250	77	64	56	66	78	76	75	72	70	68	68	65	64	63	62	60	59	56	54	48	43	36	24	11			
1600	75	62	54	64	76	74	73	70	68	66	66	62	61	60	59	58	56	53	50	44	38	29	16				
2000	73	60	52	62	74	72	71	68	66	63	63	60	59	58	56	55	53	49	46	40	32	22	6				
2500	71	58	50	60	72	70	69	65	63	61	61	58	56	55	53	51	49	45	41	32	25	14					
3150	69	56	48	58	70	67	66	63	61	59	58	55	53	52	50	48	45	40	35	25	17	3					
4000	67	54	46	56	67	65	64	61	59	56	56	52	50	49	46	44	41	35	29	17	8						
5000	65	52	44	53	65	63	62	59	56	54	53	49	47	45	43	39	36	29	21	7							
6300	63	50	41	51	63	61	59	56	54	51	50	46	44	41	38	34	30	21	12								
8000	61	47	39	49	61	58	57	53	51	48	47	43	40	37	33	28	23	13	1								
10000	58	45	37	47	58	56	54	51	48	45	43	39	35	32	27	21	14	3									
12500	56	43	35	44	56	53	52	48	45	41	39	34	30	26	20	13	4										
16000	54	41	32	42	53	51	49	45	41	37	35	29	24	19	12	3											
20000	52	38	30	39	51	48	45	41	37	33	30	23	18	11	3												
25000	49	36	27	37	48	44	42	37	33	28	24	17	10	1													

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE									
AIRCRAFT: T-29									
AIR-TO-GROUND PROPAGATION									
IDENTIFICATION: OMEGA 6.6									
METEOROLOGY: A/C CODE: 516									
TEMP = 59 F									
REL HUMID = 70 %									
DELTA M = 0.0 DB									
DELTA N = 0.0 DB									
AIRSPEED = 120 KNOTS									
SLANT DISTANCE (FEET)	AL (DB)	ALT** (DB)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)		
200	91.5	92.6	104.9	126.1	95.8	97.3	100.9		
250	89.4	90.6	102.8	103.9	94.7	96.2	99.8		
315	87.3	88.5	100.6	101.9	93.6	95.1	98.6		
400	85.2	86.3	98.4	99.6	92.5	94.0	97.4		
500	83.0	84.2	96.2	97.3	91.3	92.8	96.2		
630	80.9	82.0	93.9	95.0	90.1	91.6	94.9		
800	78.7	79.8	91.5	92.7	88.9	90.4	93.6		
1000	76.4	77.6	89.2	90.3	87.7	89.2	92.2		
1250	74.1	75.3	86.7	87.9	86.4	87.9	90.8		
1600	71.8	73.0	84.2	85.3	85.1	86.6	89.2		
2000	69.4	70.6	81.5	82.7	83.7	85.2	87.5		
2500	67.0	68.1	78.7	79.9	82.2	83.7	85.8		
3150	64.5	65.6	75.9	77.1	80.7	82.2	83.9		
4000	61.9	62.8	73.0	73.3	79.2	80.4	81.7		
5000	59.2	59.9	69.9	70.6	77.5	78.4	79.4		
6300	56.5	57.0	66.8	67.2	75.8	76.4	76.9		
8000	53.7	53.9	63.4	63.6	73.9	74.2	74.2		
10000	50.7	50.7	59.8	59.8	72.9	72.9	71.4		
12500	47.7	47.7	56.1	56.1	70.0	70.0	68.6		
16000	44.5	44.5	52.2	52.2	67.8	67.8	65.7		
20000	41.1	41.1	47.9	47.9	65.4	65.4	62.5		
25000	37.5	37.5	43.0	43.0	62.6	62.6	58.5		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	T-29	APPROACH POWER	A	P
250	(	2400 RPM	27 IN HG	A+	P
315	(	AIR SPEED = 120 KNOTS			
400	(	TEMP = 59 F	REL HUMID = 70 %	A+	P
500	(	DELTA N = 0.0 DB			
	(	NO. OF RECORDS: 1		A+	P
	(	IDENT: 6.6-516-105-080376-A			
	(			A+	P
S 630	(			A+	P
L 800	(			A+	P
N 1000	(			A+	P
D 1250	(			A+	P
I 1600	(			A+	P
S 2000	(			A+	P
N 2500	(			A+	P
C 3150	(			A+	P
E 4000	(			A+	P
F 5000	(			A+	P
E 6300	(			A+	P
T 8000	(			A+	P
10000	(			A+	P
12500	(			A+	P
16000	(			A+	P
20000	(			A+	P
25000	(			A+	P

200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000
((((((((((((((((((((((
T-29	2400 RPM	APPROACH POWER	27 IN HG																		
	AIR SPEED = 120 KNOTS																				
	TEMP = 59 F	REL HUMID = 70 %																			
	DELTA N = 6.0 DB																				
	NO. OF RECORDS: 1																				
	IDENT: 6.6-516-105-080376-A																				
S	630																				
L	800																				
A																					
N																					
T	1000																				
D	1250																				
I																					
S	1600																				
T																					
A	2000																				
N																					
G	2500																				
E																					
I	3150																				
N	4000																				
F	5000																				
E																					
E	6300																				
T	8000																				
	10000																				
	12500																				
	16000																				

IDENTIFICATION:

100

NUMBER OF COPIES

* * * * *
* * * * *

EXTRAPOLATED FROM MEAN VALUES FOR LEVELS 1 TO 6

T-29 APPROACH POWER										
	200	250	315	400	500	630	800	1000	1250	1600
S	((((((((((
L	((((((((((
A	((((((((((
N	((((((((((
T	((((((((((
D	((((((((((
I	((((((((((
S	((((((((((
T	((((((((((
A	((((((((((
N	((((((((((
C	((((((((((
E	((((((((((
I	((((((((((
N	((((((((((
F	((((((((((
E	((((((((((
E	((((((((((
T	((((((((((
1000	((((((((((
1250	((((((((((
1500	((((((((((
2000	((((((((((
2500	((((((((((

NOISE LEVEL IN DB

100

90

80

70

60

50

40

30

20

GROUND TO GROUND

P = PNL

* = PNL

+ = ALT

A = AL

200	(	T-29	APPROACH POWER	ST	E
250	(	2400 RPM	27 IN HG		
315	(	AIRSPEED = 120 KNOTS			ST E
400	(	TEMP = 59 F	REL HUMID = 70 %		ST E
500	(	DELTA N = 0.0 DB			
630	(	NO. OF RECORDS: 1			ST E
800	(	IDENT: 6.6-516-105-080376-A			
1000	(
1250	(
1600	(
2000	(
2500	(
3150	(
4000	(
5000	(
6300	(
8000	(
10000	(
12500	(
16000	(
20000	(
25000	(

[illegible]

NOISE: PRODUCED ON THE GROUND BY

T-23 AIRCRAFT

DURING GROUND RUN-JP OPERATIONS

TEST 76-516-001
AIRCRAFT CODE: 516
PROFIL VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

IDLE 800 RPM, 13 IN MAP	634-639
GROUND POWER CHECK 2050 RPM, 27.5 IN MAP	640-645
TAKEOFF 2800 RPM, 62 IN MAP	646-651
TAXI 1000 RPM, 24 IN MAP	652-657

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

24 MAY 78

AERIGHT-PATTERSON AIR FORCE BASE, TORONTO

[illegible][illegible]

UJ

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
(T-29 AIRCRAFT)																			
(ENG. R-2800-103M)																			
(GROUND RUNUP)																			
(OPERATION:)																			
(IDLE, 7-29, 800 RPM)																			
(SINGLE ENGINE)																			
(ESTIMATED C-131 0.008)																			
(METEOROLOGY:)																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = -3.0 DB)																			
(IDENTIFICATION:)																			
(OMEGA 8.2)																			
(TEST 76-516-001)																			
(RUN 01)																			
(AIRCRAFT CODE 516)																			
(OPERATION CODE 92013)																			
(PROFILE VERSION A)																			
(24 MAY 76)																			
(PAGE 01)																			
BAND CENTER																			
FREQ (HZ)																			
ANGLE (DEGREES)																			
	J	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	73	73	75	75	77	76	76	77	77	74	72	72	76	75	73	76	76	76	76
63	65	65	66	66	66	67	69	69	67	64	67	69	67	70	69	64	64	73	72
80	77	75	76	72	71	74	81	81	77	75	80	79	78	77	75	70	68	71	69
100	74	71	72	71	72	74	76	75	71	72	73	72	73	74	73	71	70	70	70
125	74	72	72	71	72	73	73	66	67	69	68	67	68	68	71	72	68	70	69
150	66	66	67	67	66	67	64	64	64	65	67	67	65	68	66	67	65	67	63
200	65	67	65	65	63	62	62	61	60	64	65	62	65	67	67	64	62	65	62
250	67	67	66	65	62	62	60	60	60	62	62	64	65	66	67	62	61	63	62
315	68	67	67	65	63	62	58	59	59	61	59	61	63	65	65	63	60	60	62
400	63	63	62	62	59	59	57	56	56	57	57	61	63	65	65	61	59	58	63
500	62	61	60	61	57	56	55	54	55	50	55	59	59	52	64	59	55	56	60
630	57	56	55	55	52	51	50	52	51	51	51	54	56	58	59	53	52	52	54
800	56	56	56	56	53	53	51	52	52	52	51	53	55	56	57	52	49	51	52
1000	57	58	60	59	58	58	56	56	55	50	53	56	57	58	58	55	51	51	53
1250	57	55	57	57	58	57	56	53	53	58	57	59	59	59	57	52	50	50	51
1600	56	53	53	52	51	51	50	50	50	50	48	51	52	53	55	51	48	49	50
2000	55	54	56	55	56	56	54	53	54	54	51	52	55	56	58	54	49	49	52
2500	53	52	52	52	52	52	53	50	51	54	51	54	57	55	57	52	49	48	52
3150	49	49	50	48	47	46	45	47	47	45	45	47	50	52	54	49	46	45	49
4000	48	48	48	46	45	45	45	44	45	43	44	46	48	51	53	46	45	44	48
5000	49	47	46	43	43	43	43	43	44	41	42	44	46	48	50	43	43	43	45
6300	44	42	41	39	39	39	39	39	39	38	38	40	43	46	49	41	41	39	43
8000	40	38	35	33	33	33	33	33	33	32	32	34	39	42	46	39	35	33	39
10000	34	32	29	27	27	27	27	27	27	25	26	28	33	36	40	33	29	27	33
OVERALL	82	80	81	80	80	81	84	84	81	80	82	81	82	82	81	80	79	80	80
XXX< = EXTRAPOLATED OR INTERPOLATED SPL																			

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE 1: PERCEIVED NOISE LEVEL (PN08)																																							
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																																							
NOISE SOURCE/SUBJECT:										IDENTIFICATION:																													
(T-29 AIRCRAFT										) OMEGA 8.2																													
(ENG. R-2800-103M										) TEST 76-516-001																													
(GROUND RUNUP										) RUN 01																													
((OPERATION: IDLE, 7-29, 800 KPH										) AIRCRAFT CODE 516																													
((SINGLE ENGINE										) OPERATION CODE 02J13																													
((ESTIMATED C-131 +0.008										) PROFILE VERSION A																													
( (										) 24 MAY 76																													
( (										) PAGE 01																													
( (										) METEOROLOGY:																													
( (										) TEMP = 59 F																													
( (										) BAR PRESS = 29.92 IN HG																													
( (										) REL HUMID = 70 %																													
( (										) DELTA N = -3.0 DB																													
ANGLE (DEGREES)																																							
DISTANCE		0		10		20		30		40		50		60		70		80		90		100		110		120		130		140		150		160		170		180	
(FEET)																																							
200		85.5		84.4		84.5		83.1		83.0		83.3		85.1		84.6		82.2		82.0		83.7		84.0		84.8		85.3		86.1		82.7		79.9		81.1		81.9	
250		83.2		82.2		82.3		80.9		80.7		81.0		82.8		82.2		79.8		79.7		81.3		81.7		82.5		82.9		83.8		80.4		77.6		78.8		79.7	
315		80.9		79.9		80.1		78.6		78.4		78.7		80.4		79.9		77.4		77.4		78.9		79.3		80.2		80.7		81.9		78.1		75.2		76.4		77.4	
400		78.5		77.6		77.8		75.3		75.0		75.3		77.9		77.4		75.0		75.1		76.5		76.9		77.8		78.4		79.1		75.7		72.8		74.0		75.1	
500		76.1		75.2		75.4		73.0		73.5		73.8		75.5		75.0		72.5		72.6		74.0		74.4		75.3		76.0		76.6		73.2		70.3		71.5		72.7	
630		73.6		72.8		73.0		71.5		70.8		71.1		72.9		72.4		70.0		70.0		71.5		71.9		72.8		73.5		74.1		70.4		67.8		68.8		70.3	
800		71.1		70.2		70.4		69.0		68.2		68.3		70.3		69.8		67.3		67.3		68.8		69.2		70.1		71.0		71.4		67.6		65.2		65.9		67.7	
1000		68.4		67.5		67.7		66.3		65.4		65.5		67.5		67.0		64.5		64.4		66.1		66.5		67.2		68.3		68.7		64.9		62.4		63.0		65.1	
1250		65.2		64.4		64.6		63.1		62.3		62.3		64.0		63.2		61.0		61.2		62.6		63.1		64.1		65.4		65.7		61.7		59.4		59.8		62.1	
1600		61.8		60.9		61.1		59.8		58.8		58.9		60.1		59.5		57.1		57.6		58.6		59.2		60.7		62.3		62.7		58.4		55.9		56.3		58.7	
2000		58.0		57.3		57.3		56.3		54.9		54.9		55.7		55.1		52.5		53.4		54.2		55.4		57.3		58.8		59.1		54.7		52.2		52.4		55.3	
2500		53.5		52.9		52.8		51.8		50.1		50.1		50.3		49.8		47.4		48.7		48.6		50.6		52.7		54.5		54.8		50.1		47.4		47.5		50.7	
3150		48.2		47.5		47.3		46.4		44.7		44.6		43.0		43.0		41.9		43.6		42.7		45.3		47.4		49.2		50.0		44.8		41.7		41.9		45.1	
4000		42.6		41.4		41.2		40.0		37.8		37.7		36.4		35.4		34.2		36.8		35.8		38.6		41.2		43.2		44.3		38.6		33.9		35.1		38.5	
5000		32.8		30.9		30.3		33.4		31.5		30.9		28.3		27.7		26.3		30.5		27.6		32.1		33.6		35.6		37.9		31.6		24.0		25.4		32.0	
6300		27.9		26.3		26.3		23.9		21.7		21.1		19.7		15.0		12.6		17.1		13.1		22.1		23.6		27.7		30.5		20.8		10.9		11.9		21.4	
8000		19.0		18.1		18.6		14.9		9.9		7.4		3.0		2.3		3.8						10.0		12.8		19.6		23.6		11.8						14.8	
10000		9.4		8.2		7.0		5.9																2.0		11.2		13.5		2.8						7.1			
12500																										2.9				3.3									
16000																																							
20000																																							
25000																																							

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
T-29 AIRCRAFT																			
ENG. 2-2400-103H																			
GROUND RUNUP																			
OPERATION:																			
IDLE, 1-29, 800 RPM																			
SINGLE ENGINE																			
ESTIMATED C-131 +0.003																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-516-001																			
RUN 01																			
AIRCRAFT CODE 516																			
OPERATION CODE 02013																			
PROFILE VERSION A																			
24 MAY 76																			
PAGE 01																			
DISTANCE																			
(FEET)																			
	3	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	86.7	85.4	82.7	83.1	84.6	84.9	85.1	85.6	82.2	83.7	82.6	85.3	86.3	85.3	86.1	83.9	79.9	81.1	81.9
250	84.4	83.2	83.5	80.9	82.3	82.5	82.8	83.4	79.8	81.4	80.4	83.3	83.6	84.0	82.9	83.8	81.6	77.6	79.7
315	82.0	80.9	81.2	78.6	79.9	80.2	80.4	81.1	77.4	79.2	78.2	80.9	81.2	81.7	80.7	81.5	79.2	75.2	76.4
400	77.7	73.0	73.9	70.3	77.6	77.9	77.9	78.6	75.0	76.3	75.0	78.5	78.8	79.4	78.4	79.1	76.8	72.8	74.3
500	77.3	70.3	70.9	74.0	75.1	75.4	75.5	76.1	72.5	74.3	73.0	76.0	76.3	76.9	76.0	76.6	74.3	70.3	71.5
630	74.8	73.0	74.1	71.5	72.4	72.7	72.9	73.6	70.0	71.7	73.4	73.8	74.4	73.5	74.1	71.6	67.8	68.8	70.3
800	72.3	71.3	71.6	69.3	69.7	69.9	70.3	70.9	67.3	69.0	70.8	71.1	71.6	71.0	71.4	68.8	65.2	65.9	67.7
1000	69.5	68.5	68.9	66.3	66.9	67.0	67.2	68.2	64.5	66.2	68.0	68.4	68.8	68.3	68.7	66.0	62.4	63.0	65.1
1250	66.4	65.4	65.8	63.1	63.5	63.9	64.0	64.6	61.0	63.0	64.5	65.0	65.6	65.4	65.7	62.8	59.4	59.8	62.1
1500	63.0	61.9	62.3	59.8	60.3	60.7	60.7	61.4	57.4	59.3	60.6	61.1	61.7	62.3	62.7	59.5	55.9	56.3	58.7
2000	59.1	58.3	58.5	56.3	56.4	56.5	56.7	57.3	53.9	55.1	56.2	57.3	58.3	58.8	59.1	55.9	52.2	52.4	55.3
3150	54.7	53.9	54.0	51.8	51.7	51.9	52.0	52.3	48.4	50.5	50.5	52.2	54.3	54.7	54.8	51.2	47.4	47.5	50.7
4000	49.3	48.5	48.7	46.4	46.2	46.2	46.4	46.6	42.9	45.3	45.3	47.2	49.0	49.2	49.0	46.0	41.7	41.9	45.1
5000	43.6	42.2	42.1	40.1	39.1	39.3	39.4	39.6	36.3	38.2	38.2	40.1	42.4	43.2	44.3	39.5	33.9	35.1	38.5
6300	38.5	37.5	37.3	35.4	35.3	35.3	35.3	35.4	32.5	34.2	34.2	36.1	38.2	38.2	38.2	32.3	24.0	25.4	28.0
8000	33.3	32.7	32.7	30.9	30.9	30.9	30.9	30.9	28.4	30.3	30.3	32.3	34.2	35.0	35.0	27.7	21.3	21.9	24.8
10000	28.2	27.3	27.3	25.9	25.9	25.9	25.9	25.9	23.0	24.9	24.9	26.9	28.9	29.2	29.2	23.6	18.0	18.9	21.4
12500	23.4	22.3	22.3	21.3	21.3	21.3	21.3	21.3	18.0	19.9	19.9	21.9	23.9	24.2	24.2	19.5	14.8	15.9	18.8
15000	18.2	17.3	17.3	16.3	16.3	16.3	16.3	16.3	13.0	14.9	14.9	16.9	18.9	19.2	19.2	14.8	10.9	11.9	14.8
20000	13.4	12.7	12.7	11.9	11.9	11.9	11.9	11.9	9.0	10.9	10.9	12.9	14.9	15.2	15.2	11.2	7.3	7.9	10.9
25000	9.4	8.7	8.7	8.0	8.0	8.0	8.0	8.0	5.0	6.9	6.9	8.9	10.9	11.2	11.2	7.3	3.3	3.9	6.9

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
T-29 AIRCRAFT																			
ENG. N-2800-103M																			
GROUND RUNUP																			
(OPERATIONS:																			
IDLE, 1-29, 800 RPM																			
(SINGLE ENGINE																			
(ESTIMATED C-131 +0.008																			
(
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA N = -3.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-516-001																			
RUN 01																			
AIRCRAFT CODE 516																			
OPERATION CODE 02013																			
PROFILE VERSION A																			
24 MAY 76																			
PAGE 71																			
DISTANCE																			
(FEET)	J	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	71.2	73.7	79.3	83.3	86.9	88.9	88.5	87.6	86.7	85.9	85.5	84.9	84.3	83.3	82.0	80.3	78.6	76.4	73.8
250	69.2	71.7	77.3	81.3	84.9	86.9	86.5	85.6	84.7	83.9	83.5	82.9	82.3	81.3	80.0	78.3	76.6	74.4	71.8
315	67.1	69.6	75.2	79.2	82.8	84.8	84.4	83.5	82.6	81.8	81.4	80.8	80.2	79.2	77.9	76.2	74.5	72.3	69.7
400	65.0	67.5	73.1	77.1	80.7	82.7	82.3	81.4	80.5	79.7	79.3	78.7	78.1	77.1	75.8	74.1	72.4	70.2	67.6
500	62.8	65.3	70.9	74.9	78.5	80.5	80.1	79.2	78.3	77.5	77.1	76.5	75.9	74.9	73.6	71.9	70.2	68.0	65.4
630	60.5	63.0	68.6	72.6	76.2	78.2	77.8	76.9	76.0	75.2	74.8	74.2	73.6	72.6	71.3	69.6	67.9	65.7	63.1
800	58.2	60.7	66.3	70.3	73.9	75.9	75.5	74.6	73.7	72.9	72.5	71.9	71.3	70.3	69.0	67.3	65.6	63.4	60.8
1000	55.8	58.3	63.9	67.9	71.5	73.5	73.1	72.2	71.3	70.5	70.1	69.5	68.9	67.9	66.6	64.9	63.2	61.0	58.4
1250	53.1	55.6	61.2	65.2	68.8	70.8	70.4	69.5	68.6	67.8	67.4	66.8	66.2	65.2	63.9	62.2	60.5	58.3	55.7
1600	50.9	53.4	59.0	63.0	66.6	68.6	68.2	67.3	66.4	65.6	65.2	64.6	64.0	63.0	61.7	60.0	57.8	55.6	53.0
2000	47.4	50.0	55.6	59.6	63.2	65.2	64.8	63.9	63.0	62.2	61.8	61.2	60.6	59.6	58.3	56.6	54.4	52.2	49.6
2500	44.1	46.7	52.3	56.3	60.0	62.0	61.6	60.7	59.8	59.0	58.6	58.0	57.4	56.4	55.1	53.4	51.2	49.0	46.4
3150	40.4	43.0	48.6	52.6	56.2	58.2	57.8	56.9	56.0	55.2	54.8	54.2	53.6	52.6	51.3	49.6	47.4	45.2	42.6
4000	36.4	39.0	44.6	48.6	52.2	54.2	53.8	52.9	52.0	51.2	50.8	50.2	49.6	48.6	47.3	45.6	43.4	41.2	38.6
5000	32.1	34.7	40.3	44.3	47.9	49.9	49.5	48.6	47.7	46.9	46.5	45.9	45.3	44.3	43.0	41.3	39.1	36.9	34.3
6300	27.6	30.2	35.8	39.8	43.4	45.4	45.0	44.1	43.2	42.4	42.0	41.4	40.8	39.8	38.5	36.8	34.6	32.4	29.8
8000	23.6	26.2	31.8	35.8	39.4	41.4	41.0	40.1	39.2	38.4	38.0	37.4	36.8	35.8	34.5	32.8	30.6	28.4	25.8
10000	19.9	22.5	28.1	32.1	35.7	37.7	37.3	36.4	35.5	34.7	34.3	33.7	33.1	32.1	30.8	29.1	26.9	24.7	22.1
12500	15.7	18.3	23.9	27.9	31.5	33.5	33.1	32.2	31.3	30.5	30.1	29.5	28.9	27.9	26.6	24.9	22.7	20.5	17.9
16000	11.4	14.0	19.6	23.6	27.2	29.2	28.8	27.9	27.0	26.2	25.8	25.2	24.6	23.6	22.3	20.6	18.4	16.2	13.6
20000	9.9	12.5	18.1	22.1	25.7	27.7	27.3	26.4	25.5	24.7	24.3	23.7	23.1	22.1	20.8	19.1	16.9	14.7	12.1
25000	2.5	5.1	10.7	14.7	18.3	20.3	20.0	19.1	18.2	17.4	17.0	16.4	15.8	14.8	13.5	11.8	10.6	9.4	7.8

TABLE: TONE-CORRECTED, A-WEIGHTED OVER-ALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
T-29 AIRCRAFT																			
ENG. R-2800-103M																			
GROUND RUNUP																			
DISTANCE (FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	72.4	71.7	72.0	69.9	70.5	70.4	68.5	68.7	66.7	69.7	69.5	70.8	71.8	71.2	72.0	69.4	65.6	66.4	67.8
250	73.4	69.6	69.9	67.8	68.4	68.3	66.4	66.7	64.6	67.7	67.4	68.7	69.7	69.1	69.9	67.4	63.6	64.4	65.7
315	68.3	67.5	67.8	65.7	66.3	66.2	64.3	64.6	62.5	65.6	65.3	66.5	67.6	67.0	67.8	65.3	61.5	62.3	63.6
400	66.2	65.4	65.7	63.6	64.2	64.1	62.2	62.5	60.3	63.4	63.2	64.5	65.5	64.9	65.6	63.1	59.3	60.2	61.5
500	64.0	63.2	63.5	61.4	62.0	61.9	60.1	60.3	58.2	61.2	61.0	62.3	63.3	62.7	63.4	61.0	57.2	58.0	59.3
630	61.7	61.0	61.3	59.1	59.7	59.6	57.9	58.1	55.9	59.0	58.8	60.1	61.0	60.4	61.1	58.7	54.9	55.6	57.0
800	59.4	58.6	59.0	56.8	57.3	57.3	55.5	55.8	53.5	56.6	56.4	57.8	58.7	58.1	58.8	56.3	52.5	53.2	54.7
1000	57.0	56.2	56.5	54.4	54.9	54.9	53.1	53.4	51.1	54.1	54.0	55.4	56.2	55.7	56.4	53.8	50.0	50.7	52.3
1250	54.3	53.6	53.9	51.8	52.2	52.1	50.3	50.7	48.4	51.4	51.2	52.7	53.6	53.1	53.8	51.2	47.3	48.0	49.8
1600	51.5	50.8	51.1	49.0	49.4	49.3	47.3	47.7	45.6	48.6	48.3	50.0	50.9	50.4	51.1	48.4	44.6	45.2	47.1
2000	48.6	47.9	48.1	46.1	46.5	46.3	44.2	44.6	42.6	45.6	45.2	47.1	48.0	47.6	48.3	45.5	41.7	42.2	44.4
2500	45.3	44.6	44.9	42.9	43.3	43.0	40.9	41.2	39.3	42.3	41.8	43.8	44.7	44.3	45.1	42.2	38.3	38.8	41.2
3150	41.6	41.3	41.3	39.4	39.7	39.4	37.5	37.8	35.7	38.8	38.1	40.2	41.1	40.7	41.5	38.6	34.5	35.1	37.5
4000	37.4	36.8	37.2	35.5	35.6	35.2	32.9	33.3	31.8	34.6	33.7	35.9	36.9	36.8	37.7	34.4	30.4	31.0	33.5
5000	32.8	32.3	32.9	31.4	31.1	30.7	28.7	28.9	27.6	30.1	29.1	31.4	32.3	32.5	33.4	29.8	26.0	26.7	29.1
6300	28.1	27.7	28.1	27.0	26.4	26.0	24.3	24.3	23.2	25.3	24.2	26.6	27.6	28.0	28.9	25.1	21.5	22.2	24.5
8000	24.1	23.7	24.0	23.0	22.0	21.6	20.4	20.3	19.2	21.8	19.9	22.2	23.3	24.2	25.2	21.2	17.8	18.6	21.0
10000	19.9	19.5	19.5	18.0	17.3	17.0	16.4	16.1	15.1	16.1	15.5	17.6	18.8	20.2	21.2	17.0	14.0	14.8	17.2
12500	15.7	15.3	15.1	14.4	13.7	13.6	12.5	12.1	10.8	11.6	11.5	13.3	14.4	16.4	16.9	12.9	10.0	10.9	13.2
16000	11.4	11.0	10.6	9.8	9.2	9.2	8.0	8.3	6.7	7.1	7.6	9.0	10.0	11.6	12.4	8.6	5.9	6.9	9.0
20000	9.9	9.3	9.1	8.1	7.4	7.4	6.4	6.7	5.1	5.5	6.0	7.4	8.4	9.6	10.4	6.4	3.9	4.9	7.0
25000	8.5	7.7	7.7	6.6	5.9	5.9	5.1	5.4	3.8	4.2	4.7	6.1	7.1	8.4	9.2	4.2	1.8	2.9	4.5

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT: T-29 AIRCRAFT
 ENG. R-2800-1334
 GROUND RUNUP
 IDENTIFICATION: OMEGA 8.2
 TEST 76-516-001
 RUN 01
 AIRCRAFT CODE 516
 OPERATION CODE 07013
 PROFILE VERSION A
 24 MAY 76
 PAGE J1
 METEOROLOGY: TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB

ANGLE DEGREES	P=PNLT										T=ALT									
	0	10	20	30	40	50	60	70	80	90	0	10	20	30	40	50	60	70	80	90
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (dB)																	
1/3 OCTAVE BAND																	
DISTANCE = 250 FEET																	
NOISE SOURCE/SUBJECT:																	
T-29 AIRCRAFT																	
ENG. R-2400-103M																	
GROUND RUNUP																	
OPERATION:																	
GROUND POWER CHECK, T-29																	
SINGLE ENGINE, 2650 KPH																	
EST. C-131 +0.038																	
METEOROLOGY:																	
TEMP = 59 F																	
BAR PRESS = 29.92 IN HG																	
REL HUMID = 70 %																	
DELTA N = -3.0 DB																	
AIRCRAFT CODE 516																	
OPERATION CODE 02008																	
PROFILE VERSION A																	
24 MAY 76																	
PAGE C2																	
BAND CENTER																	
FREQ (HZ)																	
50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500
63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300
160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000
200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL
315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL	
400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL		
500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL			
630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL				
800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL					
1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL						
1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL							
1600	2000	2500	3150	4000	5000	6300	8000	10000	OVERALL								
2000	2500	3150	4000	5000	6300	8000	10000	OVERALL									
2500	3150	4000	5000	6300	8000	10000	OVERALL										
3150	4000	5000	6300	8000	10000	OVERALL											
4000	5000	6300	8000	10000	OVERALL												
5000	6300	8000	10000	OVERALL													
6300	8000	10000	OVERALL														
8000	10000	OVERALL															
10000	OVERALL																
OVERALL																	
96	96	95	93	92	93	93	97	93	93	93	95	97	97	98	97	95	80

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT:																		
T-29 AIRCRAFT																		
ENGINE 2-2300-113H																		
GROUND RUNUP																		
OPERATIONS:																		
GROUND POWER CHECK, T-29																		
SINGLE ENGINE, 2050 RPM																		
EST. C-131 +0.003																		
METEOROLOGY:																		
TEMP = 59 F																		
BAR PRESS = 29.92 IN HG																		
REL HUMID = 73 %																		
DELTA N = -3.0 DB																		
IDENTIFICATIONS:																		
OMEGA 8.2																		
TEST 76-516-031																		
AIRCRAFT CODE 516																		
OPERATION CODE 02308																		
PROFILE VERSION A																		
24 MAY 76																		
PAGE 02																		
DISTANCE																		
ANGLE (DEGREES)																		
(FEET)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	142.2	141.7	140.8	99.3	98.6	98.2	141.3	141.2	98.2	140.8	141.0	103.7	103.7	103.8	103.4	100.6	105.4	95.2
250	104.1	93.6	94.7	97.2	96.5	96.1	93.2	93.1	96.0	98.0	99.7	131.6	101.6	101.7	101.3	98.5	103.3	93.1
315	94.1	97.5	98.0	94.3	93.3	93.3	97.0	97.0	93.9	96.4	97.5	99.4	99.4	99.6	99.1	96.4	101.2	90.9
400	95.8	95.3	94.4	92.8	92.1	91.5	94.3	94.0	91.5	94.2	95.2	97.2	97.2	97.4	96.9	94.1	99.0	88.6
500	93.5	93.0	92.0	91.4	89.7	89.0	92.6	92.5	89.1	91.3	92.9	94.9	94.9	95.1	94.6	91.7	96.6	86.2
530	91.1	93.4	89.5	88.1	87.3	86.5	90.3	90.1	86.5	89.4	90.5	92.5	92.4	92.5	92.1	89.1	94.1	83.6
600	98.6	87.7	86.7	85.5	84.8	83.3	87.7	87.5	83.8	86.3	90.1	89.1	89.7	90.1	89.4	86.5	91.6	81.1
1000	86.0	84.9	83.8	82.8	81.2	80.0	84.8	84.8	81.1	84.4	85.5	87.6	87.1	87.5	86.0	83.6	89.0	78.5
1250	82.9	82.0	81.0	79.4	78.4	77.0	81.4	81.4	77.7	81.0	82.8	84.9	84.4	84.7	83.5	80.5	86.0	75.4
1600	79.6	79.0	78.3	77.1	75.5	74.0	77.7	77.7	74.0	78.0	80.0	82.2	81.6	81.8	80.5	77.7	82.7	72.1
2000	76.5	75.0	74.3	73.4	72.3	71.7	73.7	73.7	70.5	73.9	75.7	78.0	78.6	78.8	77.4	74.6	79.2	68.5
2500	72.6	71.9	71.3	70.3	69.4	68.3	69.1	69.2	66.4	71.9	73.6	76.0	74.9	75.0	73.9	70.8	75.4	64.8
3150	68.2	67.2	66.2	65.6	65.0	63.8	64.0	64.2	61.3	67.7	70.4	72.3	71.2	70.3	68.8	66.7	71.3	60.6
4000	63.1	62.4	61.4	60.8	59.8	58.5	59.2	59.2	56.5	63.2	65.7	68.2	65.9	66.3	65.2	62.1	66.7	55.8
5100	57.7	56.9	56.0	55.4	54.1	53.3	52.6	53.0	50.3	56.6	59.0	61.0	63.0	61.4	60.2	57.0	61.8	50.5
6300	52.3	51.3	50.4	49.9	47.9	46.0	49.0	49.0	46.0	53.7	55.7	58.4	57.0	56.3	55.0	51.7	56.6	44.6
8000	46.2	47.1	46.1	45.4	43.5	42.7	41.9	43.3	39.0	46.7	51.6	54.3	52.6	52.3	50.9	47.3	52.6	39.8
10000	43.1	41.9	40.5	39.6	37.5	37.0	36.3	37.5	33.5	43.0	46.7	49.5	47.9	47.6	46.5	42.4	48.0	34.6
12500	37.1	35.8	34.2	33.8	32.5	31.0	29.9	31.9	28.4	37.2	41.0	44.2	42.4	42.2	41.2	36.6	42.6	28.2
16000	31.3	29.8	28.2	27.3	25.8	23.8	20.9	22.0	18.0	30.2	34.6	38.5	36.3	36.1	35.2	30.6	36.7	19.3
20000	23.4	21.8	19.1	16.2	16.3	13.5	6.9	8.0	6.7	20.3	27.0	31.2	29.8	29.5	28.3	20.4	29.4	7.7
25000	13.0	3.3	7.9	5.1	6.0	3.1				9.9	15.4	22.2	18.6	18.4	17.3	7.6	19.3	

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS																			
(T-29 AIRCRAFT																			
(ENG. R-2800-133M																			
(GROUND RUNUP																			
(OPERATION:																			
(GROUND POWER CHECK, T-29																			
(SINGLE ENGINE, 2050 RPM																			
(EST. C-131 +0.009																			
(TEMP																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 73 %																			
(DELTA N = -3.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-516-C31																			
AIRCRAFT CODE 516																			
OPERATION CODE 02009																			
PROFILE VERSION A																			
24 MAY 76																			
PAGE E2																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
3 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	102.2	101.7	102.4	100.6	98.3	96.2	101.3	101.2	98.9	100.8	101.8	103.7	104.5	104.4	103.4	101.2	106.2	106.3	85.6
250	100.1	99.6	100.3	98.4	97.2	96.1	99.2	99.1	96.8	98.6	99.7	101.6	102.3	102.3	101.3	99.1	104.1	93.3	81.4
300	98.0	97.5	98.1	96.3	95.0	93.9	97.0	97.4	94.9	96.4	97.5	99.4	100.2	100.1	99.1	97.0	102.0	91.7	81.1
350	95.8	95.3	95.9	94.0	92.7	91.5	94.3	94.8	92.2	94.2	95.2	97.2	98.0	97.9	96.9	94.7	99.8	89.4	78.7
400	93.5	93.0	93.6	91.7	90.4	89.0	92.6	92.5	89.8	91.9	92.9	94.9	95.7	95.6	94.6	92.3	97.4	87.2	76.2
450	91.1	90.4	91.0	89.3	88.0	86.5	90.3	90.1	87.2	89.4	90.5	92.5	93.1	93.1	92.1	89.7	94.9	84.4	73.8
500	88.6	87.7	88.3	86.7	85.5	83.9	87.7	87.5	84.5	86.9	88.1	90.1	90.5	90.6	89.4	87.1	92.4	81.9	71.3
550	86.0	84.9	85.4	84.1	82.9	81.2	85.0	84.8	81.7	84.4	85.5	87.6	87.9	88.0	86.6	84.2	89.8	79.3	68.6
600	82.9	82.0	82.6	81.3	80.1	78.4	81.5	81.4	78.4	81.6	82.8	84.9	85.2	85.2	83.5	81.1	86.8	76.2	65.5
650	79.6	78.7	79.0	78.4	77.1	75.4	77.8	77.7	74.7	78.0	79.0	81.2	82.4	82.4	80.5	78.3	83.5	72.9	62.1
700	76.5	75.8	76.5	75.3	74.1	72.3	73.7	73.7	70.7	75.7	77.0	79.2	79.4	79.4	77.5	75.2	80.0	69.3	58.3
750	72.5	71.9	72.5	71.3	70.1	68.3	69.1	69.2	66.1	71.9	73.6	76.1	75.6	75.5	73.9	71.4	76.2	65.6	54.4
800	68.2	67.5	68.1	66.9	65.6	63.8	64.6	64.2	62.5	67.7	70.0	72.3	71.9	71.4	69.8	67.3	72.1	61.4	49.8
850	63.1	62.4	62.7	61.6	60.4	58.6	59.2	59.2	57.1	63.2	65.7	68.2	67.5	66.8	65.2	62.6	67.4	56.4	44.2
900	57.7	56.9	56.9	56.2	54.5	53.3	52.6	53.8	51.3	58.6	61.0	63.4	62.5	61.8	60.2	57.4	62.2	51.3	37.9
950	52.3	51.3	51.0	50.4	49.2	47.7	46.6	48.0	45.0	53.7	55.7	58.4	57.3	56.5	55.0	52.0	56.9	44.9	30.6
1000	48.2	47.0	46.4	45.7	43.7	42.7	41.9	43.3	39.3	49.7	51.6	54.3	52.8	52.4	50.9	47.4	52.7	40.0	23.7
1050	43.1	41.9	40.6	39.0	37.5	37.0	36.3	37.5	33.5	43.0	46.7	49.5	47.9	47.5	46.5	42.4	48.0	34.6	13.5
1100	37.1	35.8	34.2	33.8	32.5	31.0	29.9	31.9	28.4	37.2	41.0	44.2	42.4	42.2	41.2	36.6	42.6	28.2	3.4
1150	31.3	29.6	28.2	27.3	25.8	23.8	22.9	24.6	20.0	30.2	34.6	38.5	36.3	36.1	35.2	30.6	36.7	19.0	
1200	23.4	21.8	18.1	16.2	16.3	13.5	6.9	6.0	0.7	20.0	27.0	31.2	29.8	29.5	28.0	20.4	29.4	7.7	
1250	13.0	3.3	7.9	5.1	6.8	3.1				9.8	15.4	22.2	18.6	16.4	17.3	7.6			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
DISTANCE (FEET)	ANGLE (DEGREES)															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	88.4	87.9	85.7	85.6	84.9	83.7	82.7	82.6	82.5	82.1	80.8	80.1	81.5	81.0	80.1	82.1
250	86.4	85.6	84.6	83.6	82.5	81.6	80.7	80.6	80.4	79.3	78.7	78.1	79.4	78.0	76.1	78.1
315	84.3	83.5	82.6	81.5	80.4	79.5	78.5	78.5	78.3	77.0	76.0	75.1	76.3	75.0	73.4	75.7
400	82.3	81.4	80.5	79.4	78.3	77.4	76.4	76.4	76.2	74.9	73.8	73.0	74.2	73.0	71.4	73.7
500	80.1	79.3	78.3	77.2	76.2	75.2	74.2	74.2	74.0	72.7	71.6	70.7	71.9	70.7	69.1	71.4
630	77.9	77.0	75.9	75.0	73.9	73.0	72.1	72.1	71.9	70.7	69.6	68.7	70.0	68.7	67.1	69.4
800	75.6	74.7	73.7	72.7	71.7	70.7	70.7	71.7	71.7	70.7	69.6	68.7	70.0	68.7	67.1	69.4
1000	73.2	72.3	71.3	70.3	69.3	68.4	67.4	67.4	67.3	66.3	65.3	64.4	65.7	64.4	62.8	65.1
1250	70.6	69.7	68.7	67.7	66.7	65.8	64.8	64.8	64.7	63.7	62.7	61.8	63.1	61.8	60.2	62.5
1600	67.9	66.9	65.9	64.9	63.9	63.0	62.0	62.0	61.9	60.9	59.9	59.0	60.3	59.0	57.4	59.7
2000	65.4	64.4	63.4	62.4	61.4	60.4	59.4	59.4	59.3	58.3	57.3	56.4	57.7	56.4	54.8	57.1
2500	61.7	60.8	59.8	58.8	57.8	56.8	55.8	55.8	55.7	54.7	53.7	52.8	54.1	52.8	51.2	53.5
3150	58.1	57.1	56.1	55.1	54.1	53.1	52.1	52.1	52.0	51.0	50.0	49.1	50.4	49.1	47.5	49.8
4000	53.9	53.1	52.1	51.1	50.1	49.1	48.1	48.1	48.0	47.0	46.0	45.1	46.4	45.1	43.5	45.8
5000	49.4	48.7	47.7	46.7	45.7	44.7	43.7	43.7	43.6	42.6	41.6	40.7	42.0	40.7	39.1	41.4
6300	44.9	44.1	43.1	42.1	41.1	40.1	39.1	39.1	39.0	38.0	37.0	36.1	37.4	36.1	34.5	36.8
8000	41.4	40.5	39.5	38.5	37.5	36.5	35.5	35.5	35.4	34.4	33.4	32.5	33.8	32.5	30.9	33.2
10000	37.6	36.7	35.7	34.7	33.7	32.7	31.7	31.7	31.6	30.6	29.6	28.7	30.0	28.7	27.1	29.4
12500	34.0	33.1	32.1	31.1	30.1	29.1	28.1	28.1	28.0	27.0	26.0	25.1	26.4	25.1	23.5	25.8
16000	29.3	28.3	27.3	26.3	25.3	24.3	23.3	23.3	23.2	22.2	21.2	20.3	21.6	20.3	18.7	21.0
20000	24.7	23.6	22.6	21.6	20.6	19.6	18.6	18.6	18.5	17.5	16.5	15.6	16.9	15.6	14.0	16.3
25000	19.0	17.8	16.8	15.8	14.8	13.8	12.8	12.8	12.7	11.7	10.7	9.8	11.1	9.8	8.2	10.5

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (LBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS																			
T-29 AIRCRAFT																			
ENG. R-2800-103M																			
GROUND RUNUP																			
OPERATION:																			
GROUND POW. CHECK, T-29																			
SINGLE ENG. 2050 RPM																			
EST. C-137 0.003																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-516-0J1																			
RUN 02																			
AIRCRAFT CODE 516																			
OPERATION CODE 02008																			
PROFILE VERSION A																			
24 MAY 76																			
PAGE 62																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.4	87.6	86.3	85.9	85.2	83.7	84.7	84.7	83.2	89.1	90.0	93.1	92.2	91.5	90.1	87.7	92.5	82.5	72.5
250	86.4	85.6	84.2	84.0	83.2	81.6	82.7	82.6	81.1	87.0	88.7	91.1	90.2	89.5	88.0	85.7	90.5	80.5	70.5
315	84.3	83.5	82.1	82.0	81.1	79.5	80.6	80.5	79.0	85.0	86.7	89.0	88.1	87.5	86.0	83.6	88.4	78.4	68.4
400	82.3	81.4	80.0	80.6	79.0	77.4	78.5	78.4	76.9	82.8	84.6	86.9	86.0	85.4	83.9	81.5	86.3	76.3	66.3
500	80.1	79.3	77.9	78.5	76.8	75.2	76.4	76.3	74.7	80.7	82.4	84.8	83.9	83.3	81.7	79.3	84.1	74.1	64.1
630	77.9	77.3	75.6	76.2	74.6	73.0	74.1	74.0	72.3	78.3	80.2	82.6	81.7	81.0	79.5	77.0	81.9	71.9	61.9
800	75.6	74.7	73.3	73.9	72.3	70.7	71.7	71.7	70.0	76.2	78.0	80.4	79.4	78.8	77.2	74.7	79.6	69.6	59.6
1000	73.2	72.3	70.9	71.6	70.0	68.4	69.1	69.3	67.5	73.9	75.7	78.1	77.1	76.5	74.8	72.3	77.2	67.2	57.2
1250	70.6	69.7	70.2	69.0	67.4	65.8	66.3	66.6	64.8	71.5	73.3	75.8	74.7	74.0	72.2	69.8	74.6	64.6	54.6
1500	67.9	66.9	67.5	66.4	64.8	63.1	63.3	63.6	61.9	69.1	70.9	73.4	72.2	71.4	69.6	67.2	71.8	61.8	51.8
2000	65.0	64.1	64.7	63.7	62.1	60.4	60.2	60.9	59.3	66.3	68.3	70.9	69.6	68.7	66.8	64.5	69.0	59.0	49.0
2500	61.7	60.8	61.4	60.6	59.0	57.2	56.7	57.6	55.6	62.4	64.4	67.0	65.7	64.6	62.7	60.5	65.0	55.0	45.0
3150	58.0	57.1	57.7	57.0	55.1	53.5	52.9	54.1	51.9	58.3	60.3	62.4	61.5	60.4	58.2	56.1	60.6	50.6	40.6
4000	53.9	53.1	53.3	52.9	51.0	49.5	48.7	50.2	47.7	54.7	56.7	58.9	57.8	56.8	54.2	52.1	56.2	46.2	36.2
5000	49.4	48.7	48.6	48.4	46.3	45.1	44.3	46.0	43.1	50.0	52.0	54.9	53.8	52.8	50.2	48.1	52.0	42.0	32.0
6300	44.9	44.1	43.7	43.6	41.6	40.6	39.8	41.0	38.4	45.4	47.4	49.4	48.3	47.3	44.7	42.6	46.5	36.5	26.5
8000	41.4	40.5	39.2	39.8	37.9	37.1	36.3	38.0	34.7	41.5	43.5	45.6	44.5	43.5	40.9	38.8	42.7	32.7	22.7
10000	37.0	36.7	35.7	35.6	34.0	33.3	32.7	34.1	30.7	37.5	39.5	41.5	40.4	39.4	36.8	34.7	38.6	28.6	18.6
12500	33.6	32.7	31.6	31.4	30.0	29.2	29.4	30.4	27.0	33.8	35.8	37.8	36.7	35.7	33.1	31.0	34.9	24.9	14.9
15000	29.3	28.3	27.3	25.9	25.6	24.8	25.3	25.7	22.3	29.1	31.1	33.1	32.0	31.0	28.4	26.3	30.2	20.2	10.2
20000	24.7	23.6	22.6	22.0	20.9	20.2	21.6	21.4	18.0	24.8	26.8	28.8	27.7	26.7	24.1	22.0	25.9	15.9	5.9
25000	19.8	18.8	17.8	16.8	15.9	15.3	16.1	17.2	13.9	18.1	20.9	23.9	22.8	21.8	19.2	17.1	21.0	11.0	1.0
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

T-29 AIRCRAFT

ENG. N-2000-113M

GROUND RUNUP

OPERATION:

GROUND POWER CHECK, T-29

SINGLE ENGINE, 2050 RPM

EST. C-131 +0.008

METEOROLOGICAL:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 76-516-001

RUN 02

AIRCRAFT CODE 516

OPERATION CODE 02308

PROFILE VERSION A

24 MAY 76

PAGE J2

ANGLE IN DEGREES	P=PNLT										A=AL										T=ALT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	10	20	30	40	50	60	70	80	90	100	110	10	20	30	40	50	60	70	80	90	100	110	10	20	30	40	50	60	70	80	90	100	110																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

TABLE: PERCEIVED NOISE LEVEL (PN03)														
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
NOISE SOURCE/SUBJECT:														
(T-29 AIRCRAFT)														
(ENJ. R-2800-103W)														
(GROUND RUNUP)														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														
()														

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)														
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
NOISE SOURCE/SUBJECT:														
(T-29 AIRCRAFT)														
(ENG. R-2800-113W)														
(GROUND RUNUP)														
IDENTIFICATION:														
) OMEGA 9.2														
) TEST 76-516-031														
) RUN 03														
) AIRCRAFT CODE 516														
) OPERATION CODE 02000														
) PROFILE VERSION A														
) 24 MAY 76														
) PAGE E3														
DISTANCE														
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130
ANGLE (DEGREES)														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130
200	121.2	119.9	119.8	119.4	119.0	118.4	118.0	117.6	122.0	123.3	124.6	125.4	124.4	125.8
250	119.1	117.0	117.7	117.2	116.9	116.3	115.5	114.7	120.7	121.2	121.2	121.2	121.2	121.2
315	117.0	116.9	115.5	115.1	114.7	114.1	113.3	112.5	118.5	119.0	119.0	119.0	119.0	119.0
400	114.6	114.8	113.4	113.3	112.9	112.5	111.9	111.1	110.3	110.3	110.3	110.3	110.3	110.3
500	112.0	112.5	111.1	111.0	110.6	110.3	109.6	108.7	108.2	108.2	108.2	108.2	108.2	108.2
600	110.2	110.2	108.0	108.7	108.2	108.2	107.2	106.1	105.5	104.6	103.5	102.2	101.0	100.0
800	107.8	107.8	105.1	105.2	105.8	105.5	104.6	103.5	102.2	101.0	100.0	98.5	97.2	96.0
1000	105.3	105.2	103.5	103.7	103.2	103.0	102.2	101.0	100.0	98.5	97.2	96.0	94.7	93.5
1250	102.5	102.3	100.8	101.0	100.5	100.3	99.5	98.2	97.0	95.8	94.6	93.4	92.2	91.0
1600	99.7	99.2	98.0	98.1	97.6	97.0	96.0	94.7	93.5	92.2	91.0	89.7	88.5	87.2
2000	96.7	96.2	94.9	95.1	94.6	94.0	93.0	91.7	90.5	89.2	88.0	86.7	85.5	84.2
2500	92.9	92.9	91.6	91.3	91.2	90.8	90.6	89.7	88.5	87.2	86.0	84.7	83.5	82.2
3150	88.7	89.0	87.0	87.5	87.2	86.5	85.4	84.2	83.0	81.7	80.5	79.2	78.0	76.7
4000	84.1	84.4	82.9	82.9	82.5	82.0	81.0	80.0	78.7	77.5	76.2	75.0	73.7	72.5
5000	79.2	79.4	77.9	77.8	77.5	77.0	75.9	74.7	73.5	72.2	71.0	69.7	68.5	67.2
6300	74.1	74.3	72.8	72.5	72.3	72.0	70.7	69.4	68.2	66.9	65.6	64.3	63.0	61.7
8000	70.1	70.3	68.7	68.2	68.3	68.7	66.0	64.7	63.4	62.1	60.8	59.5	58.2	56.9
10000	65.9	66.1	64.3	63.5	63.9	62.3	62.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5
12500	61.4	61.6	59.8	58.7	59.4	57.8	57.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8
16000	56.6	56.8	54.8	53.4	54.4	52.9	52.5	52.8	52.8	52.8	52.8	52.8	52.8	52.8
20000	51.1	51.4	49.3	47.8	48.9	47.1	46.6	46.9	46.9	46.9	46.9	46.9	46.9	46.9
25000	44.8	45.3	42.6	40.9	42.0	40.1	39.2	39.8	39.8	39.8	39.8	39.8	39.8	39.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
T-29 AIRCRAFT																			
ENG. R-2800-113W																			
GROUND RUNUP																			
(OPERATION:)																			
(TAKEOFF POWER, T-29)																			
(SINGLE ENGINE, 2800 RPM)																			
(EST. C-131 +.003)																			
METEOROLOGY:																			
(TEMP = 53 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = -3.0 DB)																			
IDENTIFICATION:																			
(OMEGA 8.2)																			
(TEST 76-516-001)																			
RUN 03																			
AIRCRAFT CODE 516																			
OPERATION CODE 02030																			
PROFILE VERSION A																			
24 MAY 76																			
PAGE F3																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	107.9	107.6	105.9	105.8	105.3	105.0	104.5	105.6	107.9	107.9	107.9	109.4	110.7	110.9	102.5	93.0	89.6	79.6	69.6
250	105.8	105.5	103.7	103.7	103.2	102.9	102.5	103.5	105.8	105.8	105.8	107.3	108.7	108.8	100.4	91.7	87.5	77.5	67.5
315	103.7	103.4	101.8	101.6	101.1	100.8	100.3	101.4	103.7	103.7	103.7	105.2	106.6	106.7	98.4	89.6	85.4	75.4	65.4
400	101.6	101.3	99.7	99.5	99.0	98.7	98.2	99.3	101.6	101.6	101.6	103.1	104.5	104.5	96.2	87.5	83.2	73.2	63.2
500	99.5	99.2	97.5	97.4	96.8	96.5	96.0	97.1	99.4	99.4	99.4	100.9	102.2	102.4	94.0	85.3	81.0	71.0	61.0
630	97.3	97.0	95.3	95.2	94.6	94.3	93.8	94.8	97.1	97.2	97.2	98.7	99.6	99.6	91.7	83.0	78.8	68.8	58.8
800	95.1	94.8	93.0	92.9	92.3	92.1	91.4	92.5	94.8	94.8	94.8	96.3	97.3	97.3	89.4	80.6	76.5	66.5	56.5
1000	92.7	92.4	90.6	90.6	90.0	89.7	89.1	90.1	92.4	92.5	92.5	93.9	94.9	94.9	87.0	78.1	74.1	64.1	54.1
1250	90.3	89.9	88.1	88.1	87.5	87.2	86.6	87.6	89.9	89.9	89.9	91.4	92.4	92.4	84.4	75.5	71.6	61.6	51.6
1600	87.7	87.3	85.5	85.5	85.0	84.5	84.0	84.9	87.2	87.2	87.2	88.7	89.8	89.8	81.8	72.7	68.9	58.9	48.9
2000	85.0	84.7	82.9	82.9	82.4	81.8	81.3	82.1	84.4	84.4	84.4	86.0	87.0	87.0	79.0	69.8	66.2	56.2	46.2
2500	81.9	81.7	79.9	79.9	79.4	78.8	78.3	79.0	81.3	81.3	81.3	82.9	84.0	84.0	76.0	66.6	63.2	53.2	43.2
3150	78.4	78.2	76.5	76.5	76.0	75.4	74.9	75.6	77.9	77.9	77.9	79.4	80.6	80.6	72.6	63.1	59.9	49.9	39.9
4000	74.5	74.4	72.7	72.7	72.2	71.6	71.2	71.9	73.9	73.9	73.9	75.7	76.9	76.9	68.8	59.3	56.3	46.3	36.3
5000	70.1	70.2	68.5	68.5	68.1	67.6	67.0	67.8	69.8	69.8	69.8	71.5	72.7	72.7	64.7	55.2	52.3	42.3	32.3
6300	65.7	65.8	64.2	64.2	63.8	63.3	62.8	63.4	65.4	65.4	65.4	67.1	68.3	68.3	60.4	50.9	48.0	38.0	28.0
8000	62.1	62.2	60.5	60.5	60.1	59.6	59.1	59.8	61.8	61.8	61.8	63.3	64.6	64.6	56.7	47.1	44.1	34.1	24.1
10000	58.2	58.4	56.5	56.5	56.2	55.9	55.4	56.1	58.1	58.1	58.1	59.6	60.9	60.9	52.7	43.0	39.9	29.9	19.9
12500	54.1	54.3	52.2	52.2	51.9	51.5	51.0	51.7	53.7	53.7	53.7	55.2	56.5	56.5	48.4	38.7	35.4	25.4	15.4
16000	49.5	49.7	47.6	47.5	47.2	46.8	46.3	47.0	49.0	49.0	49.0	50.5	51.8	51.8	43.8	34.3	30.6	20.6	10.6
20000	44.5	44.6	42.4	42.4	42.0	41.6	41.1	41.8	43.8	43.8	43.8	45.3	46.6	46.6	38.8	29.0	25.6	15.6	5.6
25000	39.0	39.1	36.8	36.8	36.4	36.0	35.5	36.2	38.2	38.2	38.2	39.7	41.0	41.0	33.0	23.5	20.7	10.7	.7
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CONNECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
T-29 AIRCRAFT																
ENG. 4-2800-113M																
GROUND RUNUP																
OPERATIONS:																
TAKOFF POWER, T-29																
SINGLE ENGINE, 2800 RPM																
EST. C-131 +0.003																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 76-516-001																
RUN 03																
AIRCRAFT CODE 516																
OPERATION CODE 02030																
PROFILE VERSION A																
24 MAY 76																
PAGE 63																
DISTANCE																
(FEET)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310
200	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
250	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
315	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
400	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
500	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
600	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
800	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
1000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
1250	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
1500	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
2000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
2500	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
3150	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
4000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
5000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
6000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
8000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
10000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
12500	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
15000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
20000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8
25000	106.6	106.8	107.3	107.7	108.6	109.7	110.2	111.2	111.9	112.4	113.1	113.8	114.5	115.2	116.0	116.8

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECTS
 T-29 AIRCRAFT
 ENG. 2-2800-133H
 GROUND RUNUP
 IDENTIFICATION:
 OMEGA 8.2
 TEST 76-516-001
 RUN 03
 AIRCRAFT CODE 516
 OPERATION CODE 02330
 PROFILE VERSION A
 24 MAY 76
 PAGE 03
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 73 %
 DELTA N = -3.0 DB
 P=PNLT
 A=AL
 T=ALT

ANGLE IN DEGREES	30	40	50	60	70	80	90	100	110	120	130
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

TABLE 1 PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
T-29 AIRCRAFT																			
ENG. R-2800-103W																			
GROUND RUNUP																			
OPERATIONS:																			
TAXI POWER, 1000 KPH																			
SINGLE ENGINE, T-29																			
EST. C-131 +0.008																			
METEOROLGY:																			
TEMP = 53 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.5	83.2	82.3	81.6	80.8	80.1	79.4	78.7	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.1	72.4	71.7	71.0
250	82.1	80.9	80.0	79.3	78.5	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9	72.2	71.5	70.8	70.1	69.4	68.7
315	79.7	78.5	77.5	76.7	75.9	75.1	74.3	73.6	72.9	72.2	71.5	70.8	70.1	69.4	68.7	68.0	67.3	66.6	65.9
400	77.3	76.1	75.1	74.3	73.5	72.7	72.0	71.3	70.6	69.9	69.2	68.5	67.8	67.1	66.4	65.7	65.0	64.3	63.6
500	74.8	73.6	72.6	71.8	71.0	70.2	69.5	68.8	68.1	67.4	66.7	66.0	65.3	64.6	63.9	63.2	62.5	61.8	61.1
630	72.2	71.0	70.0	69.2	68.4	67.6	66.9	66.2	65.5	64.8	64.1	63.4	62.7	62.0	61.3	60.6	59.9	59.2	58.5
800	69.5	68.3	67.3	66.5	65.7	64.9	64.2	63.5	62.8	62.1	61.4	60.7	60.0	59.3	58.6	57.9	57.2	56.5	55.8
1000	66.7	65.5	64.5	63.7	62.9	62.1	61.4	60.7	60.0	59.3	58.6	57.9	57.2	56.5	55.8	55.1	54.4	53.7	53.0
1250	63.3	62.1	61.1	60.3	59.5	58.7	58.0	57.3	56.6	55.9	55.2	54.5	53.8	53.1	52.4	51.7	51.0	50.3	49.6
1500	59.5	58.3	57.3	56.5	55.7	54.9	54.2	53.5	52.8	52.1	51.4	50.7	50.0	49.3	48.6	47.9	47.2	46.5	45.8
2000	51.2	50.0	49.0	48.2	47.4	46.6	45.9	45.2	44.5	43.8	43.1	42.4	41.7	41.0	40.3	39.6	38.9	38.2	37.5
2500	45.5	44.3	43.3	42.5	41.7	40.9	40.2	39.5	38.8	38.1	37.4	36.7	36.0	35.3	34.6	33.9	33.2	32.5	31.8
3150	38.7	37.5	36.5	35.7	34.9	34.1	33.4	32.7	32.0	31.3	30.6	29.9	29.2	28.5	27.8	27.1	26.4	25.7	25.0
4000	32.1	30.9	29.9	29.1	28.3	27.5	26.8	26.1	25.4	24.7	24.0	23.3	22.6	21.9	21.2	20.5	19.8	19.1	18.4
5000	26.1	24.9	23.9	23.1	22.3	21.5	20.8	20.1	19.4	18.7	18.0	17.3	16.6	15.9	15.2	14.5	13.8	13.1	12.4
6300	17.8	16.6	15.6	14.8	14.0	13.2	12.5	11.8	11.1	10.4	9.7	9.0	8.3	7.6	6.9	6.2	5.5	4.8	4.1
8000	11.4	10.2	9.2	8.4	7.6	6.8	6.1	5.4	4.7	4.0	3.3	2.6	1.9	1.2	0.5	-0.2	-0.9	-1.6	-2.3
10000	4.9	3.7	2.7	1.9	1.1	0.3	-0.4	-1.1	-1.8	-2.5	-3.2	-3.9	-4.6	-5.3	-6.0	-6.7	-7.4	-8.1	-8.8
12500	2.7	1.5	0.5	-0.3	-1.1	-1.9	-2.6	-3.3	-4.0	-4.7	-5.4	-6.1	-6.8	-7.5	-8.2	-8.9	-9.6	-10.3	-11.0
15000	0.7	-0.5	-1.5	-2.3	-3.1	-3.9	-4.6	-5.3	-6.0	-6.7	-7.4	-8.1	-8.8	-9.5	-10.2	-10.9	-11.6	-12.3	-13.0
20000	-1.4	-2.6	-3.6	-4.4	-5.2	-6.0	-6.7	-7.4	-8.1	-8.8	-9.5	-10.2	-10.9	-11.6	-12.3	-13.0	-13.7	-14.4	-15.1
25000	-2.6	-3.8	-4.8	-5.6	-6.4	-7.1	-7.8	-8.5	-9.2	-9.9	-10.6	-11.3	-12.0	-12.7	-13.4	-14.1	-14.8	-15.5	-16.2

IDENTIFICATION:

OMEGA 8.2

TEST 76-516-002

RUN 31

AIRCRAFT CODE 516

OPERATION CODE J2J15

PROFILE VERSION A

25 MAY 76

PAGE 01

TABLE 1 TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNL)													
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													
NOISE SOURCE/SUBJECT:													
T-29 AIRCRAFT													
ENG. R-2800-103M													
GROUND RUNUP													
IDENTIFICATION:													
OMEGA 8.2													
TEST 76-516-822													
AIRCRAFT CODE 516													
OPERATION CODE 32315													
PROFILE VERSION A													
25 MAY 76													
PAGE 51													
DISTANCE (FEET)													
ANGLE (DEGREES)													
	3	10	20	30	40	50	60	70	80	90	100	110	120
230	84.5	86.2	85.3	86.6	87.0	88.0	90.0	91.2	90.5	91.7	92.1	91.9	93.0
250	82.1	83.9	82.3	84.5	85.4	86.2	88.0	89.7	88.3	89.0	89.6	89.7	91.4
315	79.7	81.5	80.5	82.1	83.1	84.0	86.0	87.7	86.5	87.3	87.9	87.3	89.0
400	77.3	79.1	78.1	79.6	80.6	81.5	83.5	85.2	84.0	84.7	85.2	84.7	86.4
500	74.8	76.6	75.6	77.1	78.1	79.0	81.0	82.7	81.5	82.3	82.7	82.1	83.8
630	72.2	74.0	73.0	74.5	75.5	76.4	78.4	80.1	78.9	79.7	80.1	79.5	81.2
800	69.5	71.3	70.3	71.8	72.8	73.7	75.7	77.4	76.2	77.0	77.4	76.8	78.5
1000	66.8	68.6	67.6	69.1	70.1	71.0	73.0	74.7	73.5	74.3	74.7	74.1	75.8
1250	64.2	66.0	65.0	66.5	67.5	68.4	70.4	72.1	70.9	71.7	72.1	71.5	73.2
1500	61.6	63.4	62.4	63.9	64.9	65.8	67.8	69.5	68.3	69.1	69.5	68.9	70.6
2000	57.2	59.0	58.0	59.5	60.5	61.4	63.4	65.1	63.9	64.7	65.1	64.5	66.2
2500	52.8	54.6	53.6	55.1	56.1	57.0	59.0	60.7	59.5	60.3	60.7	60.1	61.8
3150	48.4	50.2	49.2	50.7	51.7	52.6	54.6	56.3	55.1	55.9	56.3	55.7	57.4
4000	43.9	45.7	44.7	46.2	47.2	48.1	50.1	51.8	50.6	51.4	51.8	51.2	52.9
5300	39.5	41.3	40.3	41.8	42.8	43.7	45.7	47.4	46.2	47.0	47.4	46.8	48.5
6300	35.1	36.9	35.9	37.4	38.4	39.3	41.3	43.0	41.8	42.6	43.0	42.4	44.1
8000	30.7	32.5	31.5	33.0	34.0	34.9	36.9	38.6	37.4	38.2	38.6	38.0	39.7
10000	26.3	28.1	27.1	28.6	29.6	30.5	32.5	34.2	33.0	33.8	34.2	33.6	35.3
12500	21.9	23.7	22.7	24.2	25.2	26.1	28.1	29.8	28.6	29.4	29.8	29.2	30.9
15000	17.5	19.3	18.3	19.8	20.8	21.7	23.7	25.4	24.2	25.0	25.4	24.8	26.5
20000	13.1	14.9	13.9	15.4	16.4	17.3	19.3	21.0	19.8	20.6	21.0	20.4	22.1
25000	9.7	11.5	10.5	12.0	13.0	13.9	15.9	17.6	16.4	17.2	17.6	17.0	18.7
31500	7.3	9.1	8.1	9.6	10.6	11.5	13.5	15.2	14.0	14.8	15.2	14.6	16.3
40000	5.9	7.7	6.7	8.2	9.2	10.1	12.1	13.8	12.6	13.4	13.8	13.2	14.9
53000	4.5	6.3	5.3	6.8	7.8	8.7	10.7	12.4	11.2	12.0	12.4	11.8	13.5
63000	3.9	5.7	4.7	6.2	7.2	8.1	10.1	11.8	10.6	11.4	11.8	11.2	12.9
80000	3.1	4.9	3.9	5.4	6.4	7.3	9.3	11.0	9.8	10.6	11.0	10.4	12.1
100000	2.7	4.5	3.5	5.0	6.0	6.9	8.9	10.6	9.4	10.2	10.6	10.0	11.7
125000	2.3	4.1	3.1	4.6	5.6	6.5	8.5	10.2	9.0	9.8	10.2	9.6	11.3
150000	2.0	3.7	2.7	4.2	5.2	6.1	8.1	9.8	8.6	9.4	9.8	9.2	10.9
200000	1.6	3.3	2.3	3.8	4.8	5.7	7.7	9.4	8.2	9.0	9.4	8.8	10.5
250000	1.4	3.1	2.1	3.6	4.6	5.5	7.5	9.2	8.0	8.8	9.2	8.6	10.3

TABLE 1 A-WEIGHTED OVERALL SOUND LEVEL (DBA)														
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE														
IDENTIFICATION:														
) OMEGA 8.2														
) TEST 76-516-032														
) RUN 31														
) AIRCRAFT CODE 516														
) OPERATION CODE 02015														
) PROFILE VERSION A														
) 25 MAY 76														
) PAGE 51														
) METEOROLOGICAL DATA														
) TARI POWER, 1000 WPM														
) SINGLE ENGINE, 1-24														
) EST. 5-111 +0.03														
) DELTA N = -3.0 DB														
ANGLE (DEGREES)														
DISTANCE (FEET)														
1	10	20	30	40	50	60	70	80	90	100	110	120	130	140
200	69.2	71.5	73.4	75.2	76.3	77.6	78.9	79.7	81.3	82.5	83.6	84.6	85.5	86.4
230	67.1	69.4	71.3	73.1	74.2	75.5	76.8	77.6	79.2	80.4	81.5	82.5	83.4	84.3
315	65.1	67.4	69.3	71.1	72.2	73.5	74.8	75.6	77.2	78.4	79.5	80.5	81.4	82.3
400	63.2	65.5	67.4	69.2	70.3	71.6	72.9	73.7	75.3	76.5	77.6	78.6	79.5	80.4
500	61.3	63.6	65.5	67.3	68.4	69.7	71.0	71.8	73.4	74.6	75.7	76.7	77.6	78.5
615	59.4	61.7	63.6	65.4	66.5	67.8	69.1	69.9	71.5	72.7	73.8	74.8	75.7	76.6
750	57.5	59.8	61.7	63.5	64.6	65.9	67.2	68.0	69.6	70.8	71.9	72.9	73.8	74.7
900	55.6	57.9	59.8	61.6	62.7	64.0	65.3	66.1	67.7	68.9	70.0	71.0	71.9	72.8
1050	53.7	56.0	57.9	59.7	60.8	62.1	63.4	64.2	65.8	67.0	68.1	69.1	70.0	70.9
1200	51.8	54.1	56.0	57.8	58.9	60.2	61.5	62.3	63.9	65.1	66.2	67.2	68.1	69.0
1350	49.9	52.2	54.1	55.9	57.0	58.3	59.6	60.4	62.0	63.2	64.3	65.3	66.2	67.1
1500	48.0	50.3	52.2	54.0	55.1	56.4	57.7	58.5	60.1	61.3	62.4	63.4	64.3	65.2
1650	46.1	48.4	50.3	52.1	53.2	54.5	55.8	56.6	58.2	59.4	60.5	61.5	62.4	63.3
1800	44.2	46.5	48.4	50.2	51.3	52.6	53.9	54.7	56.3	57.5	58.6	59.6	60.5	61.4
1950	42.3	44.6	46.5	48.3	49.4	50.7	52.0	52.8	54.4	55.6	56.7	57.7	58.6	59.5
2100	40.4	42.7	44.6	46.4	47.5	48.8	50.1	50.9	52.5	53.7	54.8	55.8	56.7	57.6
2250	38.5	40.8	42.7	44.5	45.6	46.9	48.2	49.0	50.6	51.8	52.9	53.9	54.8	55.7
2400	36.6	38.9	40.8	42.6	43.7	45.0	46.3	47.1	48.7	49.9	51.0	52.0	52.9	53.8
2550	34.7	37.0	38.9	40.7	41.8	43.1	44.4	45.2	46.8	48.0	49.1	50.1	51.0	51.9
2700	32.8	35.1	37.0	38.8	39.9	41.2	42.5	43.3	44.9	46.1	47.2	48.2	49.1	50.0
2850	30.9	33.2	35.1	36.9	38.0	39.3	40.6	41.4	43.0	44.2	45.3	46.3	47.2	48.1
3000	29.0	31.3	33.2	35.0	36.1	37.4	38.7	39.5	41.1	42.3	43.4	44.4	45.3	46.2
3150	27.1	29.4	31.3	33.1	34.2	35.5	36.8	37.6	39.2	40.4	41.5	42.5	43.4	44.3
3300	25.2	27.5	29.4	31.2	32.3	33.6	34.9	35.7	37.3	38.5	39.6	40.6	41.5	42.4
3450	23.3	25.6	27.5	29.3	30.4	31.7	33.0	33.8	35.4	36.6	37.7	38.7	39.6	40.5
3600	21.4	23.7	25.6	27.4	28.5	29.8	31.1	31.9	33.5	34.7	35.8	36.8	37.7	38.6
3750	19.5	21.8	23.7	25.5	26.6	27.9	29.2	30.0	31.6	32.8	33.9	34.9	35.8	36.7
3900	17.6	19.9	21.8	23.6	24.7	26.0	27.3	28.1	29.7	30.9	32.0	33.0	33.9	34.8
4050	15.7	18.0	19.9	21.7	22.8	24.1	25.4	26.2	27.8	29.0	30.1	31.1	32.0	32.9
4200	13.8	16.1	18.0	19.8	20.9	22.2	23.5	24.3	25.9	27.1	28.2	29.2	30.1	31.0
4350	11.9	14.2	16.1	17.9	19.0	20.3	21.6	22.4	24.0	25.2	26.3	27.3	28.2	29.1
4500	10.0	12.3	14.2	16.0	17.1	18.4	19.7	20.5	22.1	23.3	24.4	25.4	26.3	27.2
4650	8.1	10.4	12.3	14.1	15.2	16.5	17.8	18.6	20.2	21.4	22.5	23.5	24.4	25.3
4800	6.2	8.5	10.4	12.2	13.3	14.6	15.9	16.7	18.3	19.5	20.6	21.6	22.5	23.4
4950	4.3	6.6	8.5	10.3	11.4	12.7	14.0	14.8	16.4	17.6	18.7	19.7	20.6	21.5
5100	2.4	4.7	6.6	8.4	9.5	10.8	12.1	12.9	14.5	15.7	16.8	17.8	18.7	19.6

TABLE TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT																
T-29 AIRCRAFT																
ENJ. R-2300-133M																
GROUND RUNUP																
OPERATION																
TAXI POWER, 1400 RPM																
SINGLE ENGINE, T-29																
EST. C-131 +JC08																
METEOROLOGY																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
PAGE 61																
IDENTIFICATIONS																
OMEGA 6.2																
TEST 76-516-002																
RUN 01																
AIRCRAFT CODE 516																
OPERATION CODE 32015																
PROFILE VERSION A																
25 MAY 76																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	69.2	73.5	69.4	72.2	72.6	72.0	74.7	74.1	72.7	73.2	74.1	75.0	74.7	77.1	78.1	73.9
250	67.1	71.5	67.4	70.1	70.6	70.0	72.7	72.1	70.7	71.2	72.1	73.0	72.6	75.0	76.0	71.8
300	65.1	69.4	65.3	68.1	68.5	67.9	70.6	69.9	68.5	69.1	70.0	70.9	70.6	72.9	74.0	69.8
400	63.0	67.3	63.2	65.9	66.4	65.8	68.5	67.8	66.4	67.0	67.9	68.8	68.5	71.2	71.8	67.7
500	60.9	65.1	61.0	63.8	64.3	63.7	66.4	65.7	64.3	64.9	65.7	66.6	66.3	69.0	69.7	65.5
600	58.8	62.9	58.8	61.5	62.0	61.4	64.1	63.4	62.0	62.6	63.4	64.3	64.0	66.7	67.4	63.3
800	56.3	60.5	56.4	59.3	59.7	59.1	61.9	61.1	59.8	60.3	61.2	62.1	62.0	64.7	65.4	61.0
1000	53.9	58.1	54.0	56.9	57.4	56.8	59.6	58.7	57.1	57.7	58.6	59.7	60.3	61.3	62.0	58.6
1250	51.1	55.4	51.3	54.4	54.8	54.2	57.0	56.1	54.5	55.0	55.9	57.0	57.6	58.6	59.3	55.9
1500	48.1	52.4	48.4	51.7	52.1	51.5	54.3	53.4	51.8	52.3	53.2	54.2	54.8	55.8	56.5	53.2
2000	45.0	49.0	45.4	48.7	49.3	48.7	51.5	50.6	49.0	49.6	50.5	51.5	52.1	53.1	53.8	50.4
2500	41.4	45.1	41.9	45.6	46.1	45.5	48.3	47.4	45.8	46.3	47.2	48.2	48.8	49.8	50.5	47.0
3000	37.3	42.3	38.9	42.2	42.8	42.2	45.0	44.1	42.5	43.0	43.9	44.9	45.5	46.5	47.2	43.7
4000	32.0	38.0	34.8	38.1	38.7	38.1	40.9	40.0	38.4	38.9	39.8	40.8	41.4	42.4	43.1	39.9
5000	26.1	33.5	29.3	32.6	33.2	32.6	35.4	34.5	32.9	33.4	34.3	35.3	35.9	36.9	37.6	34.2
6000	23.3	29.8	26.7	29.2	29.8	29.2	32.0	31.1	29.5	30.0	30.9	31.9	32.5	33.5	34.2	31.9
8000	20.2	26.2	23.3	25.7	26.3	25.7	28.5	27.6	26.0	26.5	27.4	28.4	29.0	30.0	30.7	27.4
10000	16.9	21.9	17.7	21.9	22.3	21.7	24.9	24.0	22.4	22.9	23.8	24.7	25.3	26.3	27.0	24.0
12500	13.5	17.6	14.4	18.6	19.0	18.4	21.6	20.7	19.1	19.6	20.5	21.4	22.0	23.0	23.7	20.7
15000	10.4	13.6	10.3	14.5	14.9	14.3	17.6	16.7	15.1	15.6	16.5	17.4	18.0	19.0	19.7	16.4
20000	8.5	9.5	8.5	9.3	9.7	9.1	11.9	11.0	9.4	9.9	10.8	11.7	12.3	13.3	14.0	10.7
25000	3.0	5.3	2.8	4.7	5.0	4.4	8.0	7.1	5.5	5.9	6.8	7.5	8.0	9.0	9.3	5.7
																6.0
																4.6

TABLE 1 NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:
 OMEGA 8.2
 TEST 76-516-002
 RUN J1
 AIRCRAFT CODE 516
 OPERATION CODE 02J15
 PROFILE VERSION A
 25 MAY 76
 PAGE J1

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
 T-29 AIRCRAFT
 ENG. N-236C-103W
 GROUND RUNUP

OPERATION:
 TAXI POWER, 1500 RPM
 SINGLE ENGINE, T-29
 EST. 5-131 +0.003

METEOROLOGICAL:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 73 %
 DELTA N = -3.0 DB

P=PNLT	P=AL										T=ALT											
	0	10	20	30	40	50	60	70	80	90	0	10	20	30	40	50	60	70	80	90	100	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

NOISE LEVEL IN PHON: 0X DBA

[illegible]

USAF
USAF
USAF
USAF

USAF
USAF
USAF
USAF
USAF
USAF

USAF
USAF
USAF
USAF
USAF

Country	Year	Value
USA	1990	1.00
USA	1991	1.00
USA	1992	1.00
USA	1993	1.00
USA	1994	1.00
USA	1995	1.00
USA	1996	1.00
USA	1997	1.00
USA	1998	1.00
USA	1999	1.00
USA	2000	1.00
USA	2001	1.00
USA	2002	1.00
USA	2003	1.00
USA	2004	1.00
USA	2005	1.00
USA	2006	1.00
USA	2007	1.00
USA	2008	1.00
USA	2009	1.00
USA	2010	1.00
USA	2011	1.00
USA	2012	1.00
USA	2013	1.00
USA	2014	1.00
USA	2015	1.00
USA	2016	1.00
USA	2017	1.00
USA	2018	1.00
USA	2019	1.00
USA	2020	1.00
USA	2021	1.00
USA	2022	1.00
USA	2023	1.00
USA	2024	1.00
USA	2025	1.00
USA	2026	1.00
USA	2027	1.00
USA	2028	1.00
USA	2029	1.00
USA	2030	1.00
USA	2031	1.00
USA	2032	1.00
USA	2033	1.00
USA	2034	1.00
USA	2035	1.00
USA	2036	1.00
USA	2037	1.00
USA	2038	1.00
USA	2039	1.00
USA	2040	1.00
USA	2041	1.00
USA	2042	1.00
USA	2043	1.00
USA	2044	1.00
USA	2045	1.00
USA	2046	1.00
USA	2047	1.00
USA	2048	1.00
USA	2049	1.00
USA	2050	1.00
USA	2051	1.00
USA	2052	1.00
USA	2053	1.00
USA	2054	1.00
USA	2055	1.00
USA	2056	1.00
USA	2057	1.00
USA	2058	1.00
USA	2059	1.00
USA	2060	1.00
USA	2061	1.00
USA	2062	1.00
USA	2063	1.00
USA	2064	1.00
USA	2065	1.00
USA	2066	1.00
USA	2067	1.00
USA	2068	1.00
USA	2069	1.00
USA	2070	1.00
USA	2071	1.00
USA	2072	1.00
USA	2073	1.00
USA	2074	1.00
USA	2075	1.00
USA	2076	1.00
USA	2077	1.00
USA	2078	1.00
USA	2079	1.00
USA	2080	1.00
USA	2081	1.00
USA	2082	1.00
USA	2083	1.00
USA	2084	1.00
USA	2085	1.00
USA	2086	1.00
USA	2087	1.00
USA	2088	1.00
USA	2089	1.00
USA	2090	1.00
USA	2091	1.00
USA	2092	1.00
USA	2093	1.00
USA	2094	1.00
USA	2095	1.00
USA	2096	1.00
USA	2097	1.00
USA	2098	1.00
USA	2099	1.00
USA	2100	1.00

USAF
USAF
USAF

[illegible]

USAF		U-98	AIRCRAFT		USAF
USAF				DURING FLIGHT OPERATIONS	USAF
USAF					USAF
USAF					USAF

[illegible][illegible]

AIRPLANE CODE: 070
PROFILE VERSION: A
COMPUTED PROGRAM AREA & S

COMPUTER PROGRAM NUMBER 000

DOWD CEMTNG

PAGE

USAF
USAF
USAF

FORN JETTING		659-667	USAF
TAKOFF 45 IN HG			USAF
			USAF

USAF	APPROACH 24 IN HG	668-676	USAF
USAF	INTERMEDIATE 30 IN HG	677-685	USAF

[illegible]

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SDR	SPECTRUM AT DBM
USAF	USAF
USAF	USAF
USAF	USAF
USAF	USAF

AIR-TO-GROUND PROPAGATION

	USAF
SOUND PRESSURE LEVEL SPECTRA	USAF
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)	USAF
	USAF

[illegible]

SINGLE EVENT MEASURES (AL, ALT, PNL, "MCT, SEL, SELT, EPML)
USAF
USAF
USAF
USAF
USAF
USAF

30 JAN 76
USAF
USAF

USAF
USAF
USAF

USAF
USAF
AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO
USAF
USAF

USAF
USAF
USAF
USAF
USAF
USAF

	AIR CRAFT	U-49	AIR CRAFT	U-48	AIR CRAFT	U-4B	AIR CRAFT	U-49
USAF								USAF
USAF								USAF

[illegible][illegible]

	20	30	40	50	60	70	80	90	MEAN	SD
F	64.7	5.5
R	65.8	4.6
E	68.0	4.2
Q	81.5	5.3
U	78.7	2.4
E	91.5	2.2
N	77.0	4.3
G	81.3	3.2
Y	87.2	2.8
I	86.7	2.9
N	87.5	2.2
H	89.6	2.2
Z	87.4	1.2
1	85.0	1.9
2	82.4	2.3
3	82.4	2.5
4	81.0	1.9
5	81.4	3.3
6	78.4	2.6
7	75.5	2.3
8	67.6	2.8
9	62.1	3.4
0	58.5	4.3
1	56.5	5.4

U-48 TAKEOFF POWER 45 IN HG

AIR SPEED = 170 KNOTS TEMP = 59 F
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %

NO. OF RECORDS = 8 IDENT: 6.6-076-103-300176

PNLT = 108.1 PNOB
 PNL = 105.8 PNOB
 ALT = 97.0 DBA
 AL = 94.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 076																							
U-48		OPS CODE: 103																							
		PROFILE VER: A																							
		30 JAN 76																							
		PAGE H1																							
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	79	80	82	96	93	106	91	96	102	101	102	104	102	100	98	98	99	99	97	96	90	87	89	94	
250	77	78	90	94	91	104	89	94	100	95	100	102	100	98	96	96	97	97	95	94	87	85	86	91	
315	75	76	78	92	89	102	87	92	98	97	98	100	98	96	94	94	94	94	92	91	84	82	82	87	
400	73	74	76	90	87	100	85	90	96	95	96	98	96	94	92	92	92	92	90	89	82	79	79	82	
500	71	72	74	88	85	98	83	88	93	93	94	96	94	92	89	90	90	90	87	86	79	75	75	77	
630	69	70	72	86	83	96	81	85	91	91	92	94	92	90	87	87	87	87	85	83	75	71	70	71	
800	67	68	70	84	81	94	79	83	89	89	90	92	90	87	85	85	85	84	82	79	72	67	65	65	
1000	65	66	68	82	79	91	77	81	87	87	87	90	87	85	82	82	82	81	78	76	68	62	58	57	
1250	63	64	66	79	77	89	75	79	85	85	85	87	85	83	80	80	79	78	75	71	63	57	51	47	
1600	61	62	64	77	75	87	73	77	83	82	83	85	83	80	77	77	76	75	71	67	58	50	43	35	
2000	59	60	62	75	72	85	71	75	81	80	81	83	80	77	74	74	73	73	66	61	52	42	32	21	
2500	57	58	60	73	70	83	69	73	79	78	78	80	77	75	71	70	69	67	61	55	45	33	20	14	
3150	55	56	58	71	68	81	66	70	76	75	76	77	75	72	68	67	65	61	56	47	36	22	5		
4000	52	53	56	69	66	79	64	68	74	73	73	75	72	68	64	63	60	56	49	39	25	14			
5000	50	51	54	67	64	76	62	66	71	70	70	72	68	65	60	58	55	49	41	28	14				
6300	48	49	51	65	62	74	59	63	69	67	67	68	65	60	56	53	48	41	30	15					
8000	46	47	49	62	59	72	57	61	66	64	64	65	61	56	50	46	41	35	22	9					
10000	44	45	47	60	57	69	54	58	63	61	60	61	56	51	44	39	32	22	5						
12500	42	43	45	58	54	67	51	55	60	57	56	56	51	44	37	30	21	8							
16000	40	40	42	55	52	64	48	51	56	53	52	51	44	37	28	20	7								
20000	37	38	40	53	49	61	45	46	52	49	46	44	37	29	18	6									
25000	35	35	37	50	46	57	41	44	47	43	40	37	29	18	6										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	U-4B	TAKEOFF POWER	45 IN HG	AIRSPEED = 170 KNOTS	TEMP = 59 F	REL HUMID = 70 %	DELTA N = 0.0 DB	NO. OF RECORDS: 8	IDENT: 6.6-076-103-300176-A	STE
200	((((((((((
250	((((((((((
315	((((((((((
400	((((((((((
500	((((((((((
630	((((((((((
800	((((((((((
1000	((((((((((
1250	((((((((((
1600	((((((((((
2000	((((((((((
2500	((((((((((
3150	((((((((((
4000	((((((((((
5000	((((((((((
6300	((((((((((
8000	((((((((((
10000	((((((((((
12500	((((((((((
16000	((((((((((
20000	((((((((((
25000	((((((((((

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:															
GROUND-TO-GROUND PROPAGATION																	
AIRCRAFT:																	
(		( OPERATION:		METEOROLOGY:													
(		( TAKEOFF POWER		TEMP													
(		( 45 IN HG															
(		(		REL HUMID = 70 %													
((
(		( AIRSPEED = 170 KNOTS		DELTA N = 0.0 DB													
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((
((

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	TAKEOFF POWER	45 IN HG	METEOROLOGY:	TEMP	REL HUMID	DELTA N	DELTA M	IDENTIFICATION:
U-43					59 F	70 %			OMEGA 6.6
									A/C CODE: 076
									OFS CODE: 103
									PROFILE VER: A
									30 JAN 76
									PAGE M1
SLANT DISTANCE (FCEET)	AL (09A)	ALT** (DBA)	PNL (PN03)	PNLT** (PN03)	SEL (DB)	SEL** (DB)	EPNL** (EPNDR)		
200	105.5	107.7	118.1	129.3	106.3	108.2	110.4		
250	103.4	105.6	115.9	118.1	105.2	107.0	109.2		
315	101.2	103.4	113.6	115.8	104.0	105.8	107.9		
400	99.0	101.2	111.2	113.4	102.8	104.6	106.5		
500	96.7	98.9	108.7	111.0	101.5	103.4	105.1		
630	94.4	96.6	106.1	108.4	100.2	102.1	103.5		
800	92.1	94.3	103.4	105.6	98.9	100.7	101.7		
1000	89.6	91.8	100.5	102.8	97.4	99.3	99.0		
1250	87.1	89.3	97.4	98.6	95.9	97.7	97.7		
1600	84.5	86.7	94.2	96.4	94.3	96.1	95.5		
2000	81.8	84.0	91.0	93.3	92.6	94.4	93.4		
2500	78.8	81.0	87.6	89.9	90.6	92.5	91.0		
3150	75.6	77.8	84.0	86.2	88.4	90.3	88.3		
4000	72.0	73.8	79.7	81.5	85.8	87.3	84.7		
5000	67.9	69.2	74.9	76.3	82.7	83.8	80.5		
6300	63.4	64.3	69.9	70.8	79.2	80.0	76.1		
8000	59.3	59.8	65.6	66.0	76.2	76.5	72.5		
10000	54.9	54.9	60.9	60.9	72.7	72.7	68.4		
12500	50.0	50.0	55.4	55.4	68.9	68.9	63.9		
16000	44.6	44.6	49.5	49.5	64.5	64.5	59.0		
20000	38.6	38.6	42.4	42.4	59.4	59.4	52.9		
25000	32.0	32.0	34.2	34.2	53.8	53.8	45.7		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

	TAKEOFF POWER										S-T-E									
	U-48																			
	45 IN HG																			
	AIRSPEED = 170 KNOTS																			
	TEMP = 59 F REL HUMID = 70 %																			
	DELTA N = 0.0 DB																			
	NO. OF RECORDS: 8																			
	IDENT: 6.6-076-103-300176-A																			
200	((((((((((((((((((((
250	((((((((((((((((((((
315	((((((((((((((((((((
400	((((((((((((((((((((
500	((((((((((((((((((((
S 630	((((((((((((((((((((
L 800	((((((((((((((((((((
A 1000	((((((((((((((((((((
T 1250	((((((((((((((((((((
D 1500	((((((((((((((((((((
I 1600	((((((((((((((((((((
S 2000	((((((((((((((((((((
T 2500	((((((((((((((((((((
D 3150	((((((((((((((((((((
I 4000	((((((((((((((((((((
S 5000	((((((((((((((((((((
F 6300	((((((((((((((((((((
E 8000	((((((((((((((((((((
10000	((((((((((((((((((((
12500	((((((((((((((((((((
16000	((((((((((((((((((((
20000	((((((((((((((((((((
25000	((((((((((((((((((((

	20	30	40	50	60	70	80	90	MEAN	SD
50	69.1	4.2
63	68.6	4.3
80	67.8	6.2
100	75.4	4.3
125	87.3	4.6
160	87.1	4.4
200	72.3	3.5
250	63.0	5.9
315	86.0	3.9
400	79.6	2.6
500	78.9	1.6
630	80.0	2.2
800	77.1	2.4
1000	75.4	2.9
1250	70.4	2.3
1600	69.5	2.6
2000	73.7	2.3
2500	70.4	2.7
3150	68.9	2.7
4000	65.2	2.6
5000	58.2	2.1
6300	52.8	2.2
8000	48.3	3.2
10000	44.8	4.6

FR E Q U E N C Y I N H Z

63

U-4B APPROACH POWER 24 IN HG

AIRSPEED = 100 KNOTS TEMP = 59 F
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %

NO. OF RECORDS = 12 IDENT: 6.6-076-105-300176

PNLT = 100.0 PNOB
 PNL = 98.8 PNOB
 ALT = 87.5 DBA
 AL = 86.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									
AIR-TO-GROUND PROPAGATION																									
AIRCRAFT:																									
U-43																									
METEOROLOGY:																									
TEMP = 59 F																									
REL HUMID = 70 %																									
AIRSPEED = 100 KNOTS																									
DELTA N = 0.0 DB																									
PAGE 42																									
IDENTIFICATION:																									
OMEGA 6.6																									
A/C CODE: 076																									
OPS CODE: 135																									
PROFILE VEP: A																									
30 JAN 76																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)																									
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40																									
200	83	83	82	80	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
250	81	81	80	79	78	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
315	79	79	78	77	76	75	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57
400	77	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54
500	75	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52
630	73	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50
800	71	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48
1000	69	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46
1250	67	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44
1600	65	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42
2000	63	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40
2500	61	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38
3150	59	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36
4000	57	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34
5000	55	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
6300	53	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
8000	51	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
10000	49	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
12500	47	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24
16000	45	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22
20000	43	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
25000	41	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE 8. SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE.

AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	(OPERATION:	APPROACH POWER	METEOROLOGY:	SEL	SELTY	EPNL	OMEGA	A/C CODE:	OPS CODE:
U-43	24 IN HG	REL HUMID = 70 %	DELTA N = 0.0 DB	(DB)	(DB)	(EPNDB)	6.6	076	105
	AIRSPEED = 140 KNOTS							30 JAN 76	PAGE 12
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLJ** (PNDB)	SEL (DB)	SELTY** (DB)	EPNL** (EPNDB)		
200	101.6	102.8	114.3	116.0	105.1	107.4	110.2		
250	99.5	100.7	112.7	113.9	104.0	106.3	109.1		
315	97.4	98.5	110.5	111.7	102.9	105.1	107.9		
400	95.2	96.4	108.3	109.4	101.7	104.0	106.7		
500	93.1	94.2	106.0	107.2	100.5	102.8	105.4		
630	90.9	92.0	103.7	104.8	99.3	101.6	104.0		
800	88.6	89.8	101.3	102.4	98.1	100.4	102.6		
1000	86.4	87.5	98.8	100.0	96.8	99.1	101.2		
1250	84.0	85.2	96.3	97.5	95.5	97.8	99.7		
1600	81.7	82.8	93.7	94.9	94.2	96.4	98.1		
2000	79.3	80.4	91.1	92.2	92.7	95.0	96.4		
2500	76.8	77.9	88.3	89.5	91.3	93.6	94.7		
3150	74.2	75.4	85.5	86.7	89.7	92.0	92.9		
4000	71.6	72.5	82.6	83.5	88.1	89.9	90.5		
5000	68.9	69.6	79.5	80.2	86.4	87.7	88.0		
6300	66.0	66.5	76.4	76.8	84.5	85.4	85.4		
8000	63.1	63.3	73.1	73.3	82.5	83.0	82.6		
10000	59.9	59.9	69.5	69.5	80.4	80.4	79.6		
12500	56.6	56.6	65.8	65.8	78.1	78.1	76.8		
16000	53.1	53.1	61.7	61.7	75.6	75.6	73.8		
20000	49.4	49.4	57.5	57.5	72.9	72.9	70.5		
25000	45.5	45.5	53.0	53.0	70.0	70.0	67.1		

	U-48	24 IN HG	APPROACH POWER	S-T-E
200	((((
250	((((
315	((((
400	((((
500	((((
630	((((
800	((((
1000	((((
1250	((((
1600	((((
2000	((((
2500	((((
3150	((((
4000	((((
5000	((((
6300	((((
8000	((((
10000	((((
12500	((((
16000	((((
20000	((((
25000	((((

AIRSPEED = 100 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 12
 IDENT: 6.6-076-105-300176-A

AIR TO GROUND
 E = EPNL
 T = SELT
 S = SEL

NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																								OMEGA 6.6	
(OPERATION:) METEOROLOGY:)																									
(APPROACH POWER) TEMP = 59 F)																									
(24 IN HG) REL HUMID = 70 %)																									
())																									
(AIRSPEED = 100 KNOTS) DELTA N = 0.0 DB)																									
PAGE L2																									
FREQUENCY BAND NUMBER																									
SLANT	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
DISTANCE (FEET)																									
200	70	78	77	85	96	96	82	92	95	89	89	90	87	86	81	81	82	83	83	81	75	73	73	77	
250	76	76	75	82	94	94	80	90	93	87	86	88	85	84	79	78	80	81	80	78	72	70	70	73	
315	74	74	73	80	92	92	73	88	91	85	84	86	83	81	77	76	78	78	78	76	70	67	67	70	
400	72	72	71	78	90	90	75	86	89	83	82	84	81	79	75	74	76	76	75	73	67	64	63	65	
500	70	70	69	76	88	88	73	84	87	81	80	81	79	77	72	72	73	74	73	70	64	61	59	60	
630	68	68	67	74	86	85	70	81	85	79	78	79	77	75	70	69	71	71	70	67	61	57	55	54	
800	66	66	65	72	83	82	67	79	83	77	76	77	74	73	68	67	68	68	67	64	57	53	49	48	
1000	64	64	63	69	80	79	65	76	81	75	74	75	72	70	65	65	66	65	64	60	53	48	43	40	
1250	62	62	60	66	77	76	61	73	78	72	72	73	70	68	63	62	63	62	60	56	49	42	36	30	
1600	60	58	56	63	73	73	58	69	75	70	69	70	67	65	60	59	60	59	57	51	44	36	28	19	
2000	57	55	53	59	70	69	54	65	71	68	67	68	65	63	57	56	56	55	52	46	38	28	18	5	
2500	53	51	49	54	65	65	50	61	67	64	65	66	62	60	54	53	53	51	47	40	31	19	6		
3150	49	46	44	50	60	60	45	56	63	60	61	63	59	57	51	49	49	46	41	33	23	9			
4000	45	41	39	44	55	54	39	50	57	55	57	59	56	54	48	45	44	41	35	24	13				
5000	40	37	34	39	50	49	34	45	51	50	53	55	53	50	44	40	39	34	27	14	1				
6300	35	32	29	35	45	44	29	40	45	44	49	51	49	46	39	35	33	27	17	1					
8000	33	30	27	32	43	42	27	37	43	41	46	47	44	42	34	29	25	18	6						
10000	30	28	25	30	41	39	24	35	40	38	42	43	40	36	28	22	17	7							
12500	28	25	22	28	38	37	21	32	36	34	38	39	35	30	21	13	6								
16000	26	23	20	25	35	34	18	28	33	30	33	33	29	23	12	3									
20000	24	21	18	23	33	31	15	25	29	26	28	27	22	15	2										
25000	21	18	15	20	30	28	11	21	24	21	22	20	13	5											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	IDENTIFICATION:		
U-49	96.6	97.7	109.8	111.0	100.1	102.3	O-EGA 6.6		
	94.5	95.6	107.7	108.8	99.0	101.2	A/C CODE: 076		
	92.4	93.5	105.5	106.6	97.9	100.1	OPS CODE: 105		
	90.2	91.3	103.2	104.3	96.7	99.0	REL HUMID = 70 %		
	88.0	89.1	100.9	102.0	95.5	97.8	PROFILE VER: A		
	85.8	86.9	98.5	99.6	94.2	96.5	30 JAN 76		
	83.4	84.5	95.9	97.1	92.9	95.2	PAGE M2		
							DELTA N = 0.0 DB		
							AIRSPEED = 100 KNOTS		
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	96.6	97.7	109.8	111.0	100.1	102.3	105.2		
250	94.5	95.6	107.7	108.8	99.0	101.2	104.0		
315	92.4	93.5	105.5	106.6	97.9	100.1	102.8		
400	90.2	91.3	103.2	104.3	96.7	99.0	101.5		
500	88.0	89.1	100.9	102.0	95.5	97.8	100.2		
630	85.8	86.9	98.5	99.6	94.2	96.5	98.8		
800	83.4	84.5	95.9	97.1	92.9	95.2	97.3		
1000	81.0	82.1	93.3	94.4	91.5	93.8	95.6		
1250	78.4	79.5	90.2	91.3	89.9	92.2	93.5		
1600	75.7	76.8	86.8	87.9	88.2	90.4	91.2		
2000	72.9	74.0	83.2	84.3	86.4	88.6	88.6		
2500	69.8	70.9	79.2	80.3	84.3	86.5	85.5		
3150	66.4	67.5	75.4	76.5	81.9	84.2	82.7		
4000	62.7	63.6	71.0	71.9	79.2	81.9	78.8		
5000	58.4	59.1	66.1	66.8	75.9	77.3	74.6		
6300	54.0	54.4	61.0	61.5	72.5	73.4	70.0		
8000	50.1	50.4	56.7	56.9	69.6	70.1	66.2		
10000	46.0	46.0	52.0	52.0	66.5	66.5	62.1		
12500	41.4	41.4	46.6	46.6	62.9	62.9	57.6		
16000	36.5	36.5	40.3	40.3	58.9	58.9	52.4		
20000	31.1	31.1	33.6	33.6	54.5	54.5	46.7		
25000	25.3	25.3	23.6	23.6	49.8	49.8	37.6		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

U-4B APPROACH POWER										A+-----*P)		
200	(	U-4B	24 IN HG	AIR SPEED = 100 KNOTS	TEMP = 55 F	REL HUMID = 70 %	DELTA N = 0.0 DB	NO. OF RECORDS: 12	IDENT: 6.6-076-105-300176-A			
250	(										A+	*P.
315	(										A+	*P
400	(										A+	*P
500	(										A+	*P
630	(										A+	*P
800	(										A+	*P
1000	(										A+	*P
1250	(										A+	*P
1600	(										A+	*P
2000	(										A+	*P
2500	(										A+	*P
3150	(										A+	*P
4000	(										A+	*P
5000	(										A+	*P
6300	(										A+	*P
8000	(										A+	*P
10000	(										A+	*P
12500	(										A+	*P
16000	(										A+	*P
20000	(										A+	*P
25000	(										A+	*P

NOISE LEVEL IN DB

110

100

90

80

70

60

50

40

30

GROUND TO GROUND

P = PHLT

* = PHL

+ = ALT

A = AL

U-48		APPROACH POWER		S-T-E	
200	(	24 IN HG			
250	(	AIR SPEED = 100 KNOTS			S.T E
315	(	TEMP = 59 F	REL HUMID = 70 %		ST E
400	(	DELTA M = 0.0 06			ST. E
500	(	NO. OF RECORDS: 12			
	(	IDENT: 6.6-076-105-300176-A			
630	(				STE
800	(				STE
1000	(				STE
1250	(				STE
1600	(				STE
2000	(				S X
2500	(				SET
3150	(				SET
4000	(				X.T
5000	(				EST
6300	(				E ST
8000	(				E X
10000	(				E X
12500	(				GROUND TO GROUND
16000	(				E = EPNL
20000	(				T = SELT
25000	(				S = SEL

30 40 50 60 70 80 90 100 110

NOISE LEVEL IN DB

F R E Q U E N C Y	M E A N V A L U E O F N O R M A L I Z E D 1/3 O B S P L I N O B											M E A N	S D
	20	30	40	50	60	70	80	90					
50	60.8	5.4
63	61.1	4.3
80	67.5	7.3
100	72.6	3.7
125	91.0	2.6
160	76.2	3.0
200	69.3	1.5
250	82.5	2.6
315	76.2	2.1
400	77.8	3.8
500	75.0	2.2
630	75.0	2.2
800	70.5	2.2
1000	71.0	3.8
1250	65.4	3.2
1600	66.4	3.4
2000	69.0	2.9
2500	68.3	3.8
3150	68.6	3.0
4000	66.4	3.4
5000	59.4	3.3
6300	54.1	3.4
8000	50.1	3.8
10000	47.2	4.2

U-48 INTERMEDIATE POWER 30 IN HG

AIR SPEED = 160 KNOTS TEMP = 59 F PNLT = 99.8 PNOB

SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 97.1 PNOB

NO. OF RECORDS = 8 IDENT: 6.6-076-106-300176 ALT = 85.6 DBA

AL = 82.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									
AIR-TO-GROUND PROPAGATION																									
AIRCRAFT:																									
U-48																									
IDENTIFICATION:																									
OMEGA 6.6																									
A/C CODE: 076																									
OPS CODE: 106																									
PROFILE VER: A																									
30 JAN 76																									
PAGE 43																									
METEOROLOGY:																									
TEMP = 59 F																									
REL HUMID = 70 %																									
DELTA N = 0.0 DB																									
AIRSPEED = 160 KNOTS																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	75	75	82	87	105	90	84	97	91	92	90	90	85	86	81	82	85	86	87	87	87	81	79	79	84
250	73	73	80	85	103	88	82	95	89	90	88	88	83	84	79	80	83	83	85	85	84	78	76	76	80
315	71	71	78	83	101	86	80	93	87	88	86	86	81	82	77	78	81	81	82	82	76	73	73	76	80
400	69	69	76	81	99	84	78	91	84	86	83	84	79	80	75	76	79	79	80	79	73	70	70	72	80
500	67	67	74	79	97	82	75	89	82	84	81	81	77	78	72	74	77	76	77	76	73	67	66	67	80
630	65	65	72	77	95	80	73	87	80	82	79	79	75	76	70	71	74	74	75	73	67	63	61	62	80
800	63	63	70	75	93	78	71	85	78	80	77	77	73	73	68	69	72	71	72	70	63	59	56	55	80
1000	61	61	68	73	91	76	69	83	76	78	75	75	71	71	65	66	69	68	69	66	59	54	50	47	100
1250	59	59	66	71	89	74	67	80	74	76	73	73	68	69	63	64	56	65	65	62	55	49	43	38	110
1600	57	57	63	69	87	72	65	78	72	73	71	70	66	66	60	61	63	62	61	58	50	42	35	27	120
2000	55	55	61	66	85	70	63	76	70	71	68	68	63	63	58	58	60	58	57	53	44	35	25	13	130
2500	53	53	59	64	83	68	61	74	64	69	66	66	61	61	55	55	56	54	52	46	37	26	13	140	
3150	51	51	57	62	81	66	59	72	65	67	63	63	58	58	51	51	52	49	47	37	29	16	150	150	
4000	49	49	55	60	78	63	56	69	63	64	61	60	55	54	48	47	48	44	40	31	20	3	160	160	
5000	47	47	53	58	76	61	54	67	60	61	58	57	52	51	44	43	42	38	32	21	8	170	170	170	
6300	44	45	51	56	74	59	52	65	58	59	55	54	48	47	39	37	36	30	23	9	180	180	180	180	
8000	42	42	49	54	72	57	49	62	55	56	52	50	44	42	34	31	29	22	12	190	190	190	190	190	
10000	40	40	47	51	69	54	47	59	52	52	48	46	40	37	28	24	21	11	200	200	200	200	200	200	
12500	38	38	44	49	67	51	44	56	49	49	44	42	35	31	21	16	11	210	210	210	210	210	210	210	
16000	36	36	42	47	64	49	41	53	45	45	40	37	29	25	13	6	220	220	220	220	220	220	220	220	
20000	33	33	39	44	61	46	38	50	41	41	35	31	22	10	3	230	230	230	230	230	230	230	230	230	
25000	31	31	37	41	59	42	34	46	37	35	29	24	14	7	240	240	240	240	240	240	240	240	240	240	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE 8 SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATIONS:	INTERMEDIATE POWER	METEOROLOGY:	TEMP	REL HUMID	DELTA N	SEL (DB)	SELF (DB)	EPNL** (EPNOB)
U-13	(30 IN HG)	(AIRSPEED = 180 KNOTS)	(= 59 F)	(= 70 %)	(30 JAN 76)	(PAGE 13)			
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELF (DB)	EPNL** (EPNOB)		
200	98.5	101.3	113.1	115.9	100.1	102.1	105.1		
250	96.3	99.1	111.0	113.7	98.9	100.9	103.9		
315	94.2	96.9	108.8	111.5	97.8	99.8	102.7		
400	92.0	94.7	106.5	109.3	95.6	98.6	101.5		
500	89.7	92.5	104.2	107.0	95.3	97.3	100.2		
630	87.4	90.2	101.9	104.7	94.0	96.0	98.9		
800	85.1	87.9	99.5	102.3	92.7	94.7	97.5		
1000	82.8	85.6	97.1	99.8	91.4	93.4	96.0		
1250	80.4	83.2	94.6	97.3	90.0	92.0	94.5		
1600	78.0	80.8	92.0	94.8	88.5	90.6	92.9		
2000	75.6	78.3	89.4	92.1	87.2	89.2	91.3		
2500	73.1	75.9	86.7	89.5	85.7	87.7	89.7		
3150	70.6	73.4	84.0	86.8	84.2	86.2	88.0		
4000	68.0	70.3	81.1	83.3	82.6	84.2	85.7		
5000	65.4	67.1	78.1	79.7	81.0	82.2	83.2		
6300	62.7	63.8	75.0	76.1	79.3	80.1	80.7		
8000	60.0	60.5	71.7	72.3	77.6	78.0	78.1		
10000	57.1	57.1	68.7	68.4	75.7	75.7	75.3		
12500	54.1	54.1	64.9	64.9	73.7	73.7	72.9		
16000	51.0	51.0	61.3	61.3	71.6	71.6	70.2		
20000	47.7	47.7	57.5	57.5	69.3	69.3	67.4		
25000	44.2	44.2	53.2	53.2	66.3	66.3	64.2		

* * * EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

INTERMEDIATE POWER		S-T-E	
U-43	30 IN HG		
200	(
250	(		S.T E
315	(		ST E
400	(		S T.E
500	(		S.T. E
S 630	(		ST E.
L 800	(		STE
A 1000	(		S.T. E
N 1250	(		ST E
I 1600	(		S.T E
S 2000	(		S.T.E.
T 2500	(		STE
A 3150	(		STE
N 4000	(		STE
F 5000	(		STE.
E 6300	(		STE
E 8000	(		X
10000	(		EX
12500	(		EX
16000	(		EX
20000	(		EX
25000	(		EX

AIR TO GROUND
E = EPNL
T = SELT
S = SEL

NOISE LEVEL IN DB

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION										IDENTIFICATION:	
AIRCRAFT:	OPERATIONS:	INTERMEDIATE POWER	30 IN HG	METEOROLOGY:	TEMP	REL HUMID	DELTA N	0.0 DB	SELT**	EPNL**	OMEGA 6.6
U-43									(DB)	(EPNOB)	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNOB)				
200	93.5	96.2	108.1	114.8	95.1	97.1	100.0				
250	91.3	94.1	105.9	108.7	93.9	95.9	98.8				
315	89.2	91.9	103.7	106.5	92.8	94.7	97.6				
400	86.9	89.7	101.5	104.2	91.6	93.5	96.4				
500	84.7	87.4	99.1	101.8	90.3	92.2	95.0				
630	82.3	85.0	96.5	99.2	88.9	90.8	93.4				
800	79.8	82.5	93.7	96.4	87.4	89.3	91.6				
1000	77.2	79.9	90.8	93.5	85.8	87.8	89.7				
1250	74.5	77.2	87.6	90.3	84.1	86.1	87.5				
1600	71.7	74.5	84.0	86.7	82.3	84.3	84.9				
2000	68.9	71.6	80.0	82.8	80.5	82.4	82.0				
2500	65.6	68.3	76.1	78.8	78.2	80.2	79.0				
3150	62.1	64.8	71.6	74.4	75.7	77.7	75.6				
4000	58.2	60.4	67.0	69.1	72.8	74.4	71.5				
5000	53.9	55.6	62.0	63.7	69.5	70.7	67.2				
6300	49.4	50.5	56.7	57.8	66.0	66.8	62.4				
8000	45.7	46.2	52.2	52.7	63.3	63.7	58.5				
10000	41.6	41.6	47.3	47.3	60.2	60.2	54.2				
12500	37.3	37.3	41.3	41.3	56.9	56.9	49.2				
16000	32.7	32.7	35.5	35.5	53.3	53.3	44.5				
20000	27.7	27.7	28.2	28.2	49.3	49.3	38.2				
25000	22.6	22.6	17.7	17.7	45.2	45.2	28.6				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

INTERMEDIATE POWER									
200	U-48	30 IN HG	AIRSPEED = 180 KNOTS	TEMP = 59 F	REL HUMID = 70 %	DELTA N = 0.0 DB	NO. OF RECORDS: 8	IDENT: 6.6-076-106-300176-A	
250									
315									
400									
500									
630									
800									
1000									
1250									
1600									
2000									
2500									
3150									
4000									
5000									
6300									
8000									
10000									
12500									
16000									
20000									
25000									

30 40 50 60 70 80 90 100 110

NOISE LEVEL IN DB

GROUND TO GROUND
P = PNL
* = PNL
+ = ALT
A = AL

200	(	U-48	INTERMEDIATE POWER	S-T-E
250	(	30 IN HG		ST E.
315	(	AIR SPEED = 180 KNOTS		ST E.
400	(	TEMP = 59 F	REL HUMID = 70 %	ST E.
500	(	DELTA N = 0.0 DB		STE
630	(	NO. OF RECORDS: 8		STE.
800	(	IDENT: 6.6-076-106-300176-A		STE.
1000	(			STE.
1250	(			STE.
1600	(			STE.
2000	(			STE.
2500	(			STE.
3150	(			STE.
4000	(			STE.
5000	(			STE.
6300	(			STE.
8000	(			STE.
10000	(			STE.
12500	(			STE.
16000	(			STE.
20000	(			STE.
25000	(			STE.

[illegible]

NOISE PRODUCED ON THE GROUND BY

U-48 AIRCRAFT

DOJRING GROUND RUN-UP OPERATIONS

TEST 75-02-959
AIRCRAFT CODE: 076
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 0.2

POWER SETTING

POWER SETTING		PAGE
IDLE 1000 RPM	.....	687-692
MILITARY 3400 RPM	.....	693-698

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

**NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL**

PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

27 MAY 76

AEROSPACE TECHNOLOGY
HERSON AIR FORCE BASE,
LABORATORY

[illegible]

TABLE NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET														
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 372 U-49 AIRCRAFT (IDLE, 1000 RPM) TEMP = 59 F) OPERATION CODE 02013 ENG. GSO-460-A1A0/B1A6 (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION 1 GROUND RUNUP () REL HUMID = 70 %) 27 MAY 76 () DELTA N = -3.0 DB) PAGE 01														
BAND CENTER FREQ (HZ)														
ANGLE (DEGREES)														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130
50	70	70	78	78	78	78	78	76	75	74	73	72	72	71
60	66	67	65	67	69	70	73	76	71	72	70	70	71	68
70	63	64	63	63	63	63	63	62	62	62	62	62	63	64
80	69	71	70	68	69	71	71	72	69	67	68	68	67	67
90	73	72	76	76	80	80	75	75	77	79	79	79	79	78
100	69	68	67	70	73	73	73	68	73	76	76	73	73	71
110	60	62	61	62	64	64	64	66	66	64	67	67	65	64
120	64	65	65	67	70	69	69	69	66	67	68	67	65	64
130	63	64	66	66	68	68	68	67	65	66	67	65	65	66
140	60	59	57	58	58	58	59	60	63	63	64	63	62	63
150	59	58	57	55	57	59	58	54	57	55	58	58	59	58
160	57	56	54	53	52	54	54	51	52	52	56	56	57	56
170	56	54	53	52	52	51	51	49	50	51	53	54	55	54
180	51	51	50	50	49	50	49	48	48	51	51	53	54	53
190	49	48	49	46	48	48	47	46	47	46	48	49	54	53
200	46	47	47	46	47	45	45	45	44	45	46	48	53	52
210	44	44	45	45	45	45	44	44	44	45	47	49	54	53
220	44	44	45	44	44	44	43	43	44	44	47	49	52	51
230	42	43	42	42	43	42	42	42	43	45	47	50	52	51
240	40	41	41	40	41	40	39	40	41	42	46	48	51	50
250	37	36	39	37	38	39	38	38	39	41	44	49	51	50
260	31	32	34	32	33	33	33	32	33	34	39	43	45	46
270	81	81	81	82	83	83	82	81	81	82	83	82	82	81
280	81	81	81	82	83	83	82	81	81	82	83	82	82	81
290	81	81	81	82	83	83	82	81	81	82	83	82	82	81
300	81	81	81	82	83	83	82	81	81	82	83	82	82	81
310	81	81	81	82	83	83	82	81	81	82	83	82	82	81
320	81	81	81	82	83	83	82	81	81	82	83	82	82	81
330	81	81	81	82	83	83	82	81	81	82	83	82	82	81
340	81	81	81	82	83	83	82	81	81	82	83	82	82	81
350	81	81	81	82	83	83	82	81	81	82	83	82	82	81
360	81	81	81	82	83	83	82	81	81	82	83	82	82	81
370	81	81	81	82	83	83	82	81	81	82	83	82	82	81
380	81	81	81	82	83	83	82	81	81	82	83	82	82	81
390	81	81	81	82	83	83	82	81	81	82	83	82	82	81
400	81	81	81	82	83	83	82	81	81	82	83	82	82	81
410	81	81	81	82	83	83	82	81	81	82	83	82	82	81
420	81	81	81	82	83	83	82	81	81	82	83	82	82	81
430	81	81	81	82	83	83	82	81	81	82	83	82	82	81
440	81	81	81	82	83	83	82	81	81	82	83	82	82	81
450	81	81	81	82	83	83	82	81	81	82	83	82	82	81
460	81	81	81	82	83	83	82	81	81	82	83	82	82	81
470	81	81	81	82	83	83	82	81	81	82	83	82	82	81
480	81	81	81	82	83	83	82	81	81	82	83	82	82	81
490	81	81	81	82	83	83	82	81	81	82	83	82	82	81
500	81	81	81	82	83	83	82	81	81	82	83	82	82	81
510	81	81	81	82	83	83	82	81	81	82	83	82	82	81
520	81	81	81	82	83	83	82	81	81	82	83	82	82	81
530	81	81	81	82	83	83	82	81	81	82	83	82	82	81
540	81	81	81	82	83	83	82	81	81	82	83	82	82	81
550	81	81	81	82	83	83	82	81	81	82	83	82	82	81
560	81	81	81	82	83	83	82	81	81	82	83	82	82	81
570	81	81	81	82	83	83	82	81	81	82	83	82	82	81
580	81	81	81	82	83	83	82	81	81	82	83	82	82	81
590	81	81	81	82	83	83	82	81	81	82	83	82	82	81
600	81	81	81	82	83	83	82	81	81	82	83	82	82	81
610	81	81	81	82	83	83	82	81	81	82	83	82	82	81
620	81	81	81	82	83	83	82	81	81	82	83	82	82	81
630	81	81	81	82	83	83	82	81	81	82	83	82	82	81
640	81	81	81	82	83	83	82	81	81	82	83	82	82	81
650	81	81	81	82	83	83	82	81	81	82	83	82	82	81
660	81	81	81	82	83	83	82	81	81	82	83	82	82	81
670	81	81	81	82	83	83	82	81	81	82	83	82	82	81
680	81	81	81	82	83	83	82	81	81	82	83	82	82	81
690	81	81	81	82	83	83	82	81	81	82	83	82	82	81
700	81	81	81	82	83	83	82	81	81	82	83	82	82	81
710	81	81	81	82	83	83	82	81	81	82	83	82	82	81
720	81	81	81	82	83	83	82	81	81	82	83	82	82	81
730	81	81	81	82	83	83	82	81	81	82	83	82	82	81
740	81	81	81	82	83	83	82	81	81	82	83	82	82	81
750	81	81	81	82	83	83	82	81	81	82	83	82	82	81
760	81	81	81	82	83	83	82	81	81	82	83	82	82	81
770	81	81	81	82	83	83	82	81	81	82	83	82	82	81
780	81	81	81	82	83	83	82	81	81	82	83	82	82	81
790	81	81	81	82	83	83	82	81	81	82	83	82	82	81
800	81	81	81	82	83	83	82	81	81	82	83	82	82	81
810	81	81	81	82	83	83	82	81	81	82	83	82	82	81
820	81	81	81	82	83	83	82	81	81	82	83	82	82	81
830	81	81	81	82	83	83	82	81	81	82	83	82	82	81
840	81	81	81	82	83	83	82	81	81	82	83	82	82	81
850	81	81	81	82	83	83	82	81	81	82	83	82	82	81
860	81	81	81	82	83	83	82	81	81	82	83	82	82	81
870	81	81	81	82	83	83	82	81	81	82	83	82	82	81
880	81	81	81	82	83	83	82	81	81	82	83	82	82	81
890	81	81	81	82	83	83	82	81	81	82	83	82	82	81
900	81	81	81	82	83	83	82	81	81	82	83	82	82	81
910	81	81	81	82	83	83	82	81	81	82	83	82	82	81
920	81	81	81	82	83	83	82	81	81	82	83	82	82	81
930	81	81	81	82	83	83	82	81	81	82	83	82	82	81
940	81	81	81	82	83	83	82	81	81	82	83	82	82	81
950	81	81	81	82	83	83	82	81	81	82	83	82	82	81
960	81	81	81	82	83	83	82	81	81	82	83	82	82	81
970	81	81	81	82	83	83	82	81	81	82	83	82	82	81
980	81	81	81	82	83	83	82	81	81	82	83	82	82	81
990	81	81	81	82	83	83	82	81	81	82	83	82	82	81
1000	81	81	81	82	83	83	82	81	81	82	83	82	82	81
OVERALL	81	81	81	82	83	83	82	81	81	82	83	82	82	81

XXX = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
U-48 AIRCRAFT																			
ENG. GSO-440-A1A6/81A6																			
GROUND RUNUP																			
OPERATIONS:																			
IDLE, 1000 RPM																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 73 %																			
DELTA N = -3.0 DB																			
PAGE 01																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 75-002-950																			
RUN 01																			
AIRCRAFT CODE 876																			
OPERATION CODE J2313																			
PROFILE VERSION A																			
27 MAY 76																			
PAGE 01																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
J 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	83.1	82.6	83.9	85.3	86.7	86.6	84.5	83.5	84.9	86.3	86.9	87.1	86.0	86.1	87.9	87.7	85.7	83.3	80.2
250	80.8	80.3	81.2	83.0	84.6	84.5	82.2	81.2	82.2	83.7	84.7	84.7	85.7	85.4	85.7	85.4	83.4	81.3	77.8
315	78.5	77.9	79.2	80.7	82.2	82.1	79.3	78.8	80.2	81.4	82.3	82.4	83.3	83.4	83.3	83.0	81.1	78.7	75.5
400	76.1	75.5	76.8	78.3	79.8	79.7	77.5	76.4	77.8	79.3	79.9	80.0	80.9	81.0	80.9	80.6	78.7	76.3	73.1
500	73.6	73.0	74.3	75.8	77.3	77.2	75.0	73.3	75.3	76.5	77.4	77.4	78.4	78.4	78.4	78.1	76.1	73.7	70.6
530	70.9	71.3	71.5	73.3	74.6	74.4	72.2	71.1	72.5	73.7	74.6	74.0	75.6	75.6	75.6	75.3	73.3	71.0	67.8
600	68.1	67.6	68.6	71.1	71.6	71.4	69.3	68.2	69.5	70.7	71.7	71.6	72.6	72.6	72.6	72.3	70.4	68.4	64.8
1000	65.3	64.9	65.4	66.9	68.4	68.3	66.2	65.4	66.4	67.5	68.5	68.5	69.5	69.4	69.4	69.4	67.3	65.5	61.6
1250	62.4	62.0	62.1	63.4	65.0	64.3	62.2	62.2	62.3	63.3	64.3	64.3	65.3	65.0	65.0	65.0	62.9	61.2	57.3
1500	59.3	58.8	58.4	59.5	61.1	60.3	58.2	58.2	59.1	60.1	61.2	61.1	62.3	62.3	62.2	62.2	60.9	59.3	55.5
2000	55.8	55.3	54.3	55.2	56.9	56.7	54.6	54.6	55.0	56.0	57.4	56.9	58.2	58.2	58.1	58.1	57.4	55.3	51.4
2500	51.3	51.7	49.5	50.5	52.2	51.5	51.4	51.4	51.4	51.2	53.0	52.5	53.6	53.3	53.4	53.3	53.1	50.3	45.5
3150	48.2	45.4	44.0	45.1	46.8	46.3	45.3	45.3	45.3	45.0	47.5	46.7	48.0	47.9	48.5	49.1	47.9	45.3	39.5
4000	39.9	38.9	37.1	38.4	40.2	39.3	38.3	38.3	38.3	38.3	41.3	40.7	42.2	41.7	42.8	42.8	42.0	39.5	33.0
5000	32.9	31.2	29.7	30.6	32.7	32.8	32.2	32.2	32.2	32.2	34.0	33.2	35.0	35.4	36.7	36.1	35.1	32.5	26.5
6000	25.0	21.7	18.3	19.6	22.0	22.2	21.7	21.7	21.7	21.7	23.9	23.2	25.7	26.8	27.8	27.1	26.2	22.7	13.1
8000	17.2	13.8	9.7	10.7	13.4	13.5	15.3	15.3	15.3	15.3	15.1	14.2	16.6	17.3	19.0	18.4	17.4	9.4	
10000	9.4	5.8	1.0	1.8	4.7	4.5	6.3	6.3	6.2	1.1	6.2	5.2	11.5	11.0	9.8	9.7	6.8		
12500	1.7						1.6						4.3	4.1		.9			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
U-8 AIRCRAFT																			
ENG. GSO-480-A1A6/81A6																			
GROUND RUNUP																			
IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 75-002-55C																			
) RUN 01																			
) AIRCRAFT CODE 076																			
) OPERATION CODE 02J13																			
) PROFILE VERSION A																			
) 27 MAY 76																			
) PAGE E1																			
METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 73 %																			
) DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.8	82.6	85.1	86.9	88.2	87.9	85.2	84.4	85.9	87.2	88.1	88.2	83.4	85.2	86.9	89.3	89.1	87.1	84.5
250	81.5	80.3	82.7	84.6	86.0	85.7	82.3	82.0	83.2	84.9	85.9	86.3	81.7	83.7	85.9	87.0	86.8	84.8	82.2
315	79.2	77.9	80.4	82.2	83.7	83.4	80.5	79.7	81.2	82.6	83.5	83.6	79.4	81.4	83.6	84.7	84.4	82.5	79.6
400	76.8	75.5	78.0	79.8	81.3	81.0	78.2	77.3	78.8	80.2	81.1	81.2	77.0	79.0	81.2	82.3	82.0	80.0	77.4
500	74.3	73.0	75.5	77.3	78.8	78.5	75.7	74.8	76.3	77.7	78.6	78.7	74.5	76.5	78.7	79.7	79.5	77.5	74.9
633	71.6	70.3	72.7	74.5	76.0	75.7	72.9	72.0	73.5	74.9	75.8	75.9	71.7	73.7	75.9	76.9	76.6	74.7	72.1
800	68.7	67.6	69.7	71.5	73.0	72.7	70.0	69.1	70.5	71.9	72.9	72.9	68.7	70.7	73.0	73.9	73.7	71.8	69.6
1000	66.0	64.9	66.6	68.4	69.9	69.5	66.9	66.3	67.4	68.7	69.7	69.7	65.5	67.5	70.0	70.4	70.8	68.7	66.5
1250	63.1	62.0	63.2	65.0	66.4	66.1	63.4	63.0	63.9	65.2	66.2	66.2	62.0	64.0	66.5	67.3	67.6	65.5	63.3
1500	60.6	59.5	60.6	62.4	63.8	63.5	60.8	60.4	61.3	62.6	63.6	63.6	59.4	61.4	63.9	64.7	65.1	63.0	60.8
2000	56.6	55.5	56.6	58.4	59.8	59.5	56.8	56.4	57.3	58.6	59.6	59.6	55.4	57.4	59.9	60.7	61.1	59.0	56.8
2500	52.1	51.0	52.1	53.9	55.3	55.0	52.3	51.9	52.8	54.1	55.1	55.1	50.9	52.9	55.4	56.2	56.6	54.5	52.3
3150	48.9	47.8	48.9	50.7	52.1	51.8	49.0	48.6	49.5	50.8	51.8	51.8	47.6	49.6	52.1	52.9	53.3	51.2	49.0
4000	46.5	45.4	46.5	48.3	49.7	49.4	46.6	46.2	47.1	48.4	49.4	49.4	45.2	47.2	49.7	50.5	50.9	48.8	46.6
5000	43.5	42.4	43.5	45.3	46.7	46.4	43.6	43.2	44.1	45.4	46.4	46.4	42.2	44.2	46.7	47.5	47.9	45.8	43.6
6330	40.6	39.5	40.6	42.4	43.8	43.5	40.7	40.3	41.2	42.5	43.5	43.5	39.3	41.3	43.8	44.6	45.0	42.9	40.7
8000	37.3	36.2	37.3	39.1	40.5	40.2	37.4	37.0	37.9	39.2	40.2	40.2	36.0	38.0	40.5	41.3	41.7	39.6	37.4
10000	34.3	33.2	34.3	36.1	37.5	37.2	34.4	34.0	34.9	36.2	37.2	37.2	33.0	35.0	37.5	38.3	38.7	36.6	34.4
12500	31.3	30.2	31.3	33.1	34.5	34.2	31.3	30.9	31.8	33.1	34.1	34.1	30.0	32.0	34.5	35.3	35.7	33.6	31.4
15000	28.3	27.2	28.3	30.1	31.5	31.2	28.3	27.9	28.8	30.1	31.1	31.1	27.0	29.0	31.5	32.3	32.7	30.6	28.4
20000	25.3	24.2	25.3	27.1	28.5	28.2	25.3	24.9	25.8	27.1	28.1	28.1	24.0	26.0	28.5	29.3	29.7	27.6	25.4
25000	22.3	21.2	22.3	24.1	25.5	25.2	22.3	21.9	22.8	24.1	25.1	25.1	21.0	23.0	25.5	26.3	26.7	24.6	22.4
31500	19.3	18.2	19.3	21.1	22.5	22.2	19.3	18.9	19.8	21.1	22.1	22.1	18.0	20.0	22.5	23.3	23.7	21.6	19.4
40000	16.3	15.2	16.3	18.1	19.5	19.2	16.3	15.9	16.8	18.1	19.1	19.1	15.0	17.0	19.5	20.3	20.7	18.6	16.4
50000	13.3	12.2	13.3	15.1	16.5	16.2	13.3	12.9	13.8	15.1	16.1	16.1	12.0	14.0	16.5	17.3	17.7	15.6	13.4
63300	10.3	9.2	10.3	12.1	13.5	13.2	10.3	9.9	10.8	12.1	13.1	13.1	9.0	11.0	13.5	14.3	14.7	12.6	10.4
80000	7.3	6.2	7.3	9.1	10.5	10.2	7.3	6.9	7.8	9.1	10.1	10.1	6.0	8.0	10.5	11.3	11.7	9.6	7.4
100000	4.3	3.2	4.3	6.1	7.5	7.2	4.3	3.9	4.8	6.1	7.1	7.1	3.0	5.0	7.5	8.3	8.7	6.6	4.4
125000	1.7	1.6	1.7	3.1	4.5	4.2	1.7	1.6	1.7	1.7	1.7	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
150000	1.6	1.5	1.6	3.0	4.4	4.1	1.6	1.5	1.6	1.6	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
200000	1.5	1.4	1.5	2.9	4.3	4.0	1.5	1.4	1.5	1.5	1.5	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
250000	1.4	1.3	1.4	2.8	4.2	3.9	1.4	1.3	1.4	1.4	1.4	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

[illegible]

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECTS
 U-48 AIRCRAFT
 ENG. 650-480-A1A6/81A6
 GROUND RUNUP
 IDENTIFICATIONS:
 OMEGA 8.2
 TEST 75-102-050
 RUN 01
 AIRCRAFT CODE 376
 OPERATION CODE 02113
 PROFILE VERSION A
 27 MAY 76
 PAGE J1
 METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 73 %
 DELTA N = -3.0 DB

ANGLE IN DEGREES	P=PNL										T=ALT									
	0	10	20	30	40	50	60	70	80	90	0	10	20	30	40	50	60	70	80	90
9
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (D8)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 076																
U-43 AIRCRAFT (MIL POWER, 3400 RPM) TEMP = 59 F) OPERATION CODE 02004																
ENG. GSO-480-A1A6/B1A6 (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																
GROUND RUNUP (REL HUMID = 70 %) 27 MAY 76																
(DELTA N = -3.0 DB) PAGE C2																
BAND CENTER																
FREQ (HZ)																
ANGLE (DEGREES)																
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																
50	70	69	69	69	70	70	71	72	73	74	75	76	77	78	79	80
63	69	69	69	71	72	72	73	73	74	74	75	75	76	77	78	79
80	73	76	77	82	87	91	93	93	94	95	96	96	97	98	99	100
100	90	92	96	88	88	90	92	92	93	97	99	100	102	102	102	102
125	80	83	83	82	82	83	83	82	85	89	90	91	94	94	94	94
160	84	88	84	87	93	94	96	94	92	94	96	98	100	100	100	100
200	87	86	88	90	90	92	90	89	89	91	93	91	93	91	91	91
250	87	92	95	96	90	98	101	96	93	97	101	105	106	99	91	90
315	93	97	93	94	92	95	91	93	93	95	95	94	96	95	96	96
400	94	93	93	93	93	93	95	96	93	97	97	98	102	103	99	89
500	96	94	92	90	92	93	93	94	95	96	96	98	98	100	98	87
630	94	94	93	92	93	93	94	95	94	97	98	98	99	100	98	85
800	93	93	91	90	90	92	93	93	93	95	95	95	99	101	90	82
1000	89	89	86	87	88	89	88	87	90	92	94	95	98	99	89	80
1250	89	87	85	86	87	86	86	86	87	88	88	88	90	90	88	80
1600	87	86	84	84	84	85	85	86	87	88	88	87	88	87	88	78
2000	86	86	86	85	85	84	85	85	87	88	87	87	87	87	88	78
2500	85	84	84	83	83	83	83	83	85	86	86	86	86	86	87	77
3150	83	82	82	81	82	82	82	82	84	85	85	85	85	85	85	86
4000	81	81	81	80	80	80	81	81	82	84	84	84	84	84	84	85
5000	79	79	78	78	79	79	79	79	81	81	82	82	82	82	82	83
6300	78	76	77	76	78	78	78	78	80	81	81	81	81	81	81	82
8000	74	73	74	74	74	74	75	75	77	79	80	81	81	81	81	82
10000	69	69	69	69	71	71	72	74	75	76	78	80	81	81	81	82
OVERALL	104	103	102	102	102	102	102	102	104	104	106	107	108	111	112	110

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE 1 PERCEIVED NOISE LEVEL (PNL)																			IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE) OMEGA 8.2	
) TEST 75-002-050	
NOISE SOURCE/SUBJECT:) RUN 02	
) OPERATIONS:) AIRCRAFT CODE 076	
) MIL POWER, 3400 RPM) OPERATION CODE 02114	
) SINGLE ENGINE) PROFILE VERSION A	
) DELTA N = -3.0 DB) 27 MAY 76	
) DISTANCE) PAGE 02	
(FEET)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180		
200	114.2	113.7	112.5	112.3	112.1	113.8	113.4	114.9	116.2	117.5	119.0	119.9	122.3	124.4	123.1	113.6	115.0	104.9	94.8	
250	112.1	111.5	110.3	110.1	109.9	111.7	113.3	112.7	113.9	115.2	116.8	117.7	120.1	122.2	120.9	111.4	112.8	102.7	92.6	
315	109.9	109.3	108.1	107.9	107.6	109.5	111.1	110.4	111.7	113.0	114.6	115.4	117.8	119.9	118.6	109.1	110.5	100.4	90.3	
400	107.7	107.1	105.8	105.7	105.4	107.3	108.9	108.1	109.4	110.6	112.1	113.1	115.5	117.5	116.2	106.8	108.1	98.0	87.9	
500	105.4	104.8	103.4	103.4	103.0	105.0	106.6	105.7	107.0	108.2	109.7	110.6	113.0	115.1	113.7	104.4	105.6	95.5	85.3	
630	103.0	102.5	101.0	100.9	100.6	102.5	104.0	103.2	104.4	105.7	107.1	108.0	110.5	112.5	111.2	101.8	103.0	92.9	82.7	
800	100.6	100.0	98.5	98.4	98.1	99.8	101.4	100.7	101.8	103.0	104.4	105.3	107.8	109.7	108.4	99.2	100.3	90.2	79.9	
1000	98.0	97.4	95.9	95.8	95.5	97.3	98.5	98.1	99.2	100.3	101.5	102.5	105.0	106.8	105.7	96.4	97.5	87.3	77.1	
1250	95.0	94.4	93.1	93.0	92.7	94.5	95.4	95.2	96.4	97.4	98.7	99.4	102.2	103.9	102.7	93.4	94.5	84.3	74.1	
1600	91.0	90.2	89.1	89.0	88.7	90.6	91.6	91.3	92.3	93.5	94.5	95.7	98.2	99.3	98.5	90.1	91.3	81.1	70.9	
2000	87.0	86.1	85.2	85.1	84.8	86.8	87.8	87.5	88.5	89.6	90.7	91.9	94.2	95.3	94.5	86.1	87.2	77.0	66.8	
2500	83.0	82.0	81.1	81.0	80.7	82.7	83.7	83.4	84.4	85.5	86.6	87.7	89.9	91.0	90.2	81.8	82.9	72.6	62.4	
3150	79.0	78.0	77.1	77.0	76.7	78.7	79.7	79.4	80.4	81.5	82.6	83.7	85.9	87.0	86.2	77.8	78.9	68.5	58.3	
4000	75.0	74.0	73.1	73.0	72.7	74.7	75.7	75.4	76.4	77.5	78.6	79.7	81.9	83.0	82.2	73.8	74.9	64.5	54.3	
5000	71.0	70.0	69.1	69.0	68.7	70.7	71.7	71.4	72.4	73.5	74.6	75.7	77.9	79.0	78.2	70.0	71.1	60.3	50.1	
6300	68.0	67.2	66.3	66.2	65.9	67.9	68.9	68.6	69.6	70.7	71.8	72.9	75.1	76.2	75.4	67.2	68.3	57.5	47.3	
8000	64.1	63.1	62.2	62.1	61.8	63.8	64.8	64.5	65.5	66.6	67.7	68.8	70.9	72.0	71.2	63.0	64.1	53.3	43.1	
10000	59.8	58.8	57.9	57.8	57.5	59.5	60.5	60.2	61.2	62.3	63.4	64.5	66.6	67.7	66.9	58.7	59.8	48.3	38.1	
12500	55.1	54.0	53.2	53.1	52.8	54.8	55.8	55.5	56.5	57.6	58.7	59.8	61.9	63.0	62.2	54.0	55.1	44.3	34.1	
16000	49.6	48.5	47.6	47.5	47.2	49.2	50.2	50.0	51.0	52.1	53.2	54.3	56.4	57.5	56.7	48.5	49.6	38.7	28.5	
20000	43.4	42.1	41.1	41.0	40.7	42.7	43.7	43.4	44.4	45.5	46.6	47.7	49.8	50.9	50.1	42.0	43.1	32.3	22.1	
25000	36.7	34.9	32.6	31.8	31.0	33.0	34.0	33.7	34.7	35.8	36.9	38.0	40.1	41.2	40.4	32.3	33.4	23.1	12.9	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
VOICE SOURCE/SUBJECT: (OPERATIONS) METEOROLOGY: (IDENTIFICATION:)																			
U-48 AIRCRAFT (MIL POWER, 3400 RPM) TEMP () OMEGA 8.2																			
ENG. GSO-400-A140/31A6 (SINGLE ENGINE) BAR PRESS = 29.92 IN HG () TEST 75-002-458																			
GROUND RUNUP (REL HUMID = 73 %) AIRCRAFT CODE 076																			
() PROFILE VERSION A																			
() 27 MAY 76																			
() DELTA N = -3.0 DB () PAGE E2																			
DISTANCE																			
(FEET)	3	13	26	36	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	116.3	115.8	114.2	113.4	113.2	114.9	117.1	116.3	117.5	118.4	120.2	121.4	124.0	126.5	124.8	115.9	117.4	107.4	97.3
250	114.1	113.6	112.0	111.2	111.0	112.8	115.0	114.1	114.3	116.2	117.9	119.1	121.8	124.3	122.5	113.7	115.2	105.1	95.0
315	112.6	111.5	109.8	109.0	108.8	110.5	112.6	111.8	112.5	113.9	115.7	116.9	119.5	122.0	120.2	111.5	112.9	102.8	92.7
400	109.7	109.2	107.4	106.8	106.5	108.4	110.6	109.5	110.2	111.6	113.3	114.5	117.1	119.6	117.9	109.1	110.4	100.4	90.3
510	107.4	107.0	105.1	104.5	104.2	106.1	108.3	107.6	107.8	109.1	110.9	112.0	114.7	117.2	115.4	106.7	108.0	97.9	87.7
630	105.1	104.6	102.6	101.9	101.6	103.5	105.6	104.8	105.2	106.6	108.3	109.4	112.1	114.6	112.8	104.1	105.4	95.3	85.1
800	102.6	102.1	100.1	99.5	99.3	101.3	103.1	102.0	102.6	104.3	105.5	106.7	109.5	111.5	110.1	101.5	102.8	92.6	82.4
1000	99.5	99.5	97.5	96.9	96.9	98.8	100.3	99.4	100.0	101.2	102.7	103.9	106.7	108.3	107.3	98.7	99.9	89.4	79.5
1250	97.0	96.5	94.4	94.1	94.0	95.6	97.1	96.6	97.2	98.4	99.9	100.8	103.9	106.0	104.4	95.7	96.9	86.7	76.5
1500	94.9	93.3	91.3	91.2	91.0	92.7	94.2	93.6	94.3	95.4	96.9	97.6	100.9	103.1	101.2	92.5	93.7	83.5	73.3
2000	91.0	90.3	88.9	88.2	87.8	89.0	91.1	90.5	91.2	92.3	93.8	94.5	97.6	99.3	97.8	89.0	90.3	80.1	69.8
2500	87.7	86.9	85.1	84.4	84.4	85.8	87.3	87.1	87.5	88.9	90.3	90.9	94.0	96.1	94.3	85.2	86.6	76.3	66.0
3150	83.9	83.1	81.5	80.6	80.6	81.7	83.4	83.4	83.2	85.2	86.4	87.1	89.7	91.8	90.6	81.2	82.8	72.6	62.2
4000	79.2	78.5	77.3	76.1	76.3	77.3	79.0	78.9	79.3	81.3	82.0	82.0	85.1	86.6	86.2	76.6	78.1	67.8	57.2
5000	74.1	73.4	71.3	71.2	71.5	72.4	73.8	74.0	74.1	75.9	77.0	77.5	80.3	81.7	81.4	71.6	73.3	62.5	51.7
6300	68.8	68.0	66.7	66.3	66.3	67.3	68.5	68.8	68.9	70.7	71.8	72.3	74.7	76.2	76.2	66.2	67.5	57.0	45.4
8000	64.5	63.5	62.2	61.7	62.3	62.9	64.1	64.4	64.7	66.5	67.5	67.8	70.2	71.5	71.5	61.2	62.7	51.9	39.4
10000	59.0	58.0	57.3	56.9	57.1	58.2	59.2	59.6	60.2	61.8	62.8	63.1	65.5	66.7	66.4	55.8	57.4	46.1	32.7
12500	55.1	54.0	52.2	51.9	52.0	53.3	54.3	54.6	55.4	56.9	58.2	58.2	60.6	61.8	61.3	50.2	52.1	40.3	24.7
16000	49.0	48.9	46.5	46.5	46.5	48.1	48.8	49.4	50.1	51.7	53.0	52.7	55.2	56.5	55.5	44.0	46.2	32.9	14.2
20000	43.4	42.1	40.1	39.1	39.1	41.3	42.4	42.6	43.3	45.6	47.1	46.3	49.3	50.6	49.3	36.5	39.5	23.7	3.7
25000	36.1	34.9	32.6	31.8	31.6	34.4	35.1	35.2	36.2	38.2	40.1	38.5	42.7	44.1	41.3	28.0	31.3	9.4	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(U-48 AIRCRAFT)																			
(ENG. GSO-480-A1A6/B1A6)																			
(GROUND RUNUP)																			
IDENTIFICATIONS:																			
) OMEGA 8.2																			
) TEST 75-002-050																			
) RUN 02																			
) AIRCRAFT CODE 976																			
) OPERATION CODE 02004																			
) PROFILE VERSION A																			
) 27 MAY 76																			
) PAGE 02																			
METEOROLOGICAL DATA:																			
) TEMPERATURE = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA T = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
230	104.8	104.0	102.3	101.4	101.3	102.6	104.1	103.8	104.1	105.7	107.0	107.9	113.9	113.3	112.4	103.0	104.5	94.5	84.5
250	102.7	102.0	100.2	99.3	99.2	100.6	102.0	101.7	102.0	103.6	104.9	105.7	108.7	111.1	110.3	100.8	102.3	92.3	82.3
315	100.6	99.8	98.1	97.2	97.1	98.5	99.9	99.5	99.8	101.4	102.7	103.6	106.6	108.9	108.1	98.7	100.2	90.2	80.2
400	98.4	97.7	95.9	95.0	94.9	96.3	97.8	97.4	97.7	99.3	100.5	101.4	104.4	106.7	105.9	96.5	98.0	88.0	78.0
500	96.3	95.6	93.8	92.8	92.8	94.2	95.6	95.2	95.4	97.3	98.3	99.1	102.1	104.5	103.7	94.2	95.7	85.7	75.7
630	94.1	93.4	91.5	90.6	90.5	91.9	93.3	92.9	93.2	94.8	96.0	96.9	99.8	102.1	101.4	91.9	93.4	83.4	73.4
800	91.9	91.1	89.2	88.3	88.2	89.6	91.0	90.6	90.9	92.5	93.7	94.4	97.4	99.7	99.1	89.5	91.0	81.3	71.0
1000	89.6	88.8	86.9	85.9	85.9	87.3	88.6	88.2	88.5	90.1	91.3	92.0	95.0	97.3	96.6	87.1	88.6	78.6	68.6
1250	87.1	86.3	84.4	83.5	83.5	84.8	86.1	85.8	86.0	87.7	88.8	89.5	92.5	94.7	94.1	84.5	86.0	76.0	66.0
1600	84.6	83.8	81.9	80.9	80.9	82.3	83.6	83.2	83.5	85.2	86.3	86.9	89.9	92.1	91.6	81.8	83.4	73.4	63.4
2000	82.0	81.2	79.2	78.2	78.3	79.7	80.9	80.6	80.9	82.6	83.7	84.2	87.2	89.4	88.9	79.1	80.6	70.6	60.6
2500	79.1	78.3	76.3	75.2	75.5	76.7	78.0	77.8	78.0	79.7	80.8	81.2	84.2	86.3	85.9	76.0	77.7	67.7	57.7
3150	75.9	75.1	73.1	72.0	72.4	73.5	74.7	74.7	74.7	76.6	77.6	78.0	80.9	83.0	82.8	72.8	74.5	64.5	54.5
4000	71.9	71.1	69.1	68.2	68.7	69.6	70.8	70.9	70.9	72.8	73.8	74.2	77.0	79.0	78.9	68.8	70.5	60.5	50.5
5000	67.4	66.6	64.7	63.8	64.4	65.4	66.5	66.5	66.6	68.5	69.5	69.8	72.6	74.4	74.8	64.3	66.0	56.3	46.0
6300	62.6	61.9	60.0	59.2	59.9	60.8	61.9	61.9	62.0	64.1	65.0	65.2	67.9	69.5	70.2	59.5	61.2	51.2	41.2
8000	58.4	57.7	55.9	55.2	55.9	56.8	57.5	57.9	58.1	60.1	61.0	61.1	63.7	65.1	65.7	55.0	56.6	46.6	36.6
10000	53.9	53.1	51.5	50.8	51.4	52.5	53.1	53.5	53.9	55.8	56.6	56.6	59.1	60.4	60.9	50.0	51.8	41.8	31.8
12500	49.5	48.6	47.0	46.3	46.8	48.0	48.7	49.0	49.4	51.3	52.1	51.9	54.4	55.7	55.9	45.1	46.9	36.9	26.9
16000	44.5	43.6	42.0	41.3	41.8	43.0	43.7	44.0	44.5	46.3	47.1	46.8	49.3	50.5	50.4	39.7	41.7	31.7	21.7
20000	39.1	38.1	36.5	35.9	36.1	37.5	38.3	38.5	39.1	40.7	41.5	41.2	43.7	45.0	44.4	33.9	35.9	25.9	15.9
25000	33.0	31.9	30.4	29.8	29.9	31.6	32.4	32.2	33.1	34.5	35.4	35.1	37.6	38.9	37.7	27.7	29.7	19.7	9.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

U-48 AIRCRAFT

ENG. GSO-400-A1A6/B1A6

GROUND RUNUP

OPERATIONS:

MIL POWER, 3400 RPM

SINGLE ENGINE

MTTEOROLOGV:

TEMP 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.8 DB

IDENTIFICATION:

OMEGA 8.2

TEST 75-002-050

RUN 02

AIRCRAFT CODE 876

OPERATION CODE 02004

PROFILE VERSION A

27 MAY 76

PAGE J2

ANGLE IN DEGREES	P=PLT										I=ALT												
	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.